AV80R™ HANDHELD



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AV8OR

User's Guide

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1. INTRODUCTION

Thank you for choosing the Honeywell AV8OR, a Multi-Function Display (MFD) that integrates GPS, Navigation Database, Graphical Terrain, XM Weather into a single, easy to use, portable aviation device. In addition to the benefits for aviation use, this device also contains a complete compliment of automotive navigation and multi-media features for use when not in your aircraft. To get the most out of your new navigation system, read this manual completely to learn the features for your unit.

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HONEYWELL CUSTOMER SUPPORT

For more information, including details regarding your warranty, visit www.bendixking.com/av8or.

For technical support of this product please contact your local Bendix/King Dealer. To locate the Bendix/King Dealer nearest you visit www.bendixking.com/av8or.

For additional support, contact Honeywell Customer & Product Support: at:

US & Canada:	1-877-712-2386
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2. GETTING STARTED

UNIT OVERVIEW



Figure 2-1: AV8OR Controls

Displays and Controls

The AV8OR has the displays and controls that follow as shown in Figure 2-1:

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FIG NO	DISPLAY OR CONTROL	DESCRIPTION
1	Touch screen	4.3 inch TFT touch screen. The resolution is 480 x 272 pixels.
2	POWER key	The POWER key is used to turn the unit on and off and also can put the unit into Sleep mode and wake the unit from Sleep mode.
3	MENU key	The MENU key returns the user to the main menu from any program in the unit.
4	LED charging status indicator	Shows the status of the charging system while the unit is being charged.
5	SD slot and SD card	The SD slot holds a SD card which contains the aviation and automotive navigation software.
6	LOCK tab	The LOCK tab disables all controls and stops the touch screen from responding to taps.
7	6 VDC power connector	This connector lets the unit receive power from an AC or an automotive DC.
8	Microphone	The microphone is used for Bluetooth connections to cell phones.
9	USB/Serial port	This is used for standard USB connection to a PC to download movies, pictures, E-books and new updates to the navigational software. Also used for RS 232 connection to external hardware with special

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FIG NO	DISPLAY OR CONTROL	DESCRIPTION
		cable.
10	AV-IN port	Future expansion
11	Headset jack	The headset jack accepts a standard headphone miniature stereo adapter so the user can listen to music or movies from the unit.
12	Volume control knob	The volume control controls the volume of the sound through the rear speaker or the Headset jack if a headset is plugged in.
13	External GPS antenna jack	The remote GPS antenna jack allows the user to plug in the remote GPS antenna that is supplied with the unit for better satellite reception.
14	Stylus	The stylus allows the user to precisely tap the touch screen.
15	Removable battery cover	A replaceable battery is included with the unit. An optional battery with a longer life is also available. The serial number for the unit is located on the case under the battery.
16	Internal speaker	AV8OR has an Internal speaker for music, movies, routing instructions
17	Reset button	The reset button reboots the AV8OR unit.

Supplied Equipment

The AV8OR comes preloaded with either USA or European Maps:

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AV8OR SYSTEM PART NUMBER	INCLUDED DATABASE	
	DATABASE (ON SD CARD)	**HONEYWELL PART NUMBER**
066-01207-0001	USA Maps	071-00261-0101
066-01207-0002	European Maps	071-00261-0102

The AV8OR comes with the standard equipment that follows:

ITEM	PART NUMBER	DESCRIPTION
1	066-01207-0099	GPS Base Display Unit, with 800 mAh Battery and battery mounting bracket
2	005-03702-0002	12-28 VDC Adaptor
3	005-03702-0003	120/220 VAC Adapter (with electrical plug)
4	005-03702-0004	PC/USB Cable
5	005-03702-0005	Carrying Bag
6	005-03702-0006	Remote GPS Antenna
7	005-03702-0007	Aviation Mount
8	005-03702-0009	Automotive Windshield Mount
9	005-03702-0010	Earphone
10	005-03702-0012	CD – User manual
11	005-03702-0013	Quick Reference Guide

Optional Equipment

The following accessories are available for the AV8OR:

ITEM	PART NUMBER	DESCRIPTION
1	005-03702-0014	1600,mAh Battery, (with mounting bracket)
2	005-03702-0008	Automotive Dashboard Mount
3	005-03702-0017	RS232 Cable

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Note: The list of optional equipment may change in the future. For the latest list of options please visit the www.bendixking.com/av8or website.

CHARGING THE INTERNAL BATTERY

Before using this unit for the first time, the internal battery in the AV8OR must be charged.

Find the power connector (7) on the right side of the unit. Refer to Figure 2-1.

Recharge the unit by either using the DC power adapter or the 120/220V AC adapter.

The LED charging indicator (4) on the unit shows a yellow light while the unit is charging.



Figure 2-2: Charging with AV8OR turned off

When the unit is completely charged, the yellow light changes to a green light. If the unit is turned on while charging, the charging animation in the top right portion of the screen also displays a green battery with full bars.

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Figure 2-3: Charge is completed

USING AV8OR

This section explains how to enter and select information with the AV8OR.

Understanding Terms

The AV8OR unit is designed to allow quick, convenient selection of navigation options and data entry. As you progress through this user's manual, you are directed to tap a specific soft key or highlight a field on the screen. In order to highlight a field, just touch the field on the screen.

- **Touch or Tap:** Use your finger or the AV8OR stylus to touch the screen on the soft key and remove it quickly
- **Double tap:** Use your finger or the stylus to touch the screen twice on a field. The double tap is used to open a menu selection box.
- **Pan:** Touch the screen and move your finger or stylus across the screen while continuing to touch the screen. This allows you to scroll the map and change settings.
- **Highlight:** Touch on the screen to select the desired individual fields. Moving the highlight to a desired location allows the user to make a selection, begin data entry, or scroll through a list.
- **Field:** The location on a page where data or an option can be entered and shown.

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- **Scroll Bar:** When viewing a list of items that is too long to show on the screen, a scroll bar appears along the right side of the list. To scroll through a list, hold your finger or stylus on the scroll bar and move your finger or stylus up or down and the list of items will move up or down too.

TURNING AV8OR ON/OFF

The first time your new AV8OR is turned on, the GPS receiver must collect satellite data and establish its present location. Before you turn on the unit, make sure that it has a clear and unobstructed view of the sky to receive satellite signals.

1. Ensure that the "Lock" switch is unlocked.

2. Hold the Power down soft Key until the blue screen shows.



Figure 2-4: AV8OR Power Up

3. To turn off the AV8OR, press and hold the Power soft Key until POWER OFF screen shows.



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Figure 2-5: AV8OR Power off

AV8OR SLEEP MODE

AV8OR can be put into sleep mode as shown in Figure 2-6. AV8OR, while in sleep mode, continues to run in a low power mode.



Figure 2-6: AV8OR Sleep Mode

Turn Sleep Mode On and Off

1. To put the unit in **Sleep** mode, press and quickly release the Power soft Key until **Sleeping** shows on the screen for a moment, then the screen goes blank.

2. To wake up the unit, press and quickly release the Power soft Key.

MAIN MENU

After the logo startup page shows, the MAIN MENU is displayed.

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Figure 2-7: Main Menu

GETTING SATELLITE SIGNALS

When the AV8OR is turned on, it automatically begins to search for satellite signals. This process can take a few minutes. Be sure the device has a clear and unobstructed view of the sky.

View GPS status from Settings

You can monitor GPS status by tapping the **Settings** soft key on the **Main Menu** page (refer to Figure 2-7), and tapping on the **GPS Status** soft key (refer to Figure 2-8).



Figure 2-8: Settings Page

The GPS Status page provides a visual reference of satellite acquisition, receiver status, current position and a reset mechanism.

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GPS Signal Strength

The GPS Signal Strength page is the default page for GPS Status. As the receiver locks onto satellites, a bar appears for each satellite. The bar shows the signal strength for each satellite. The bar changes color from grey to blue when the satellite is locked.

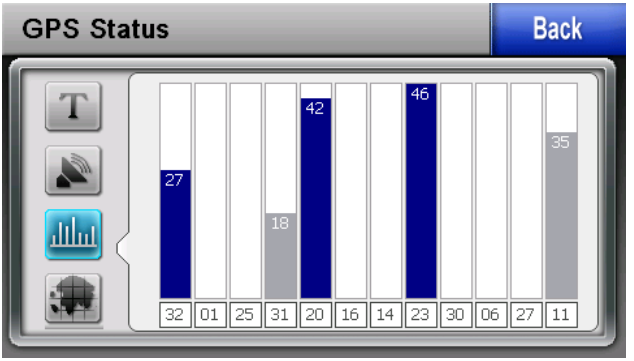
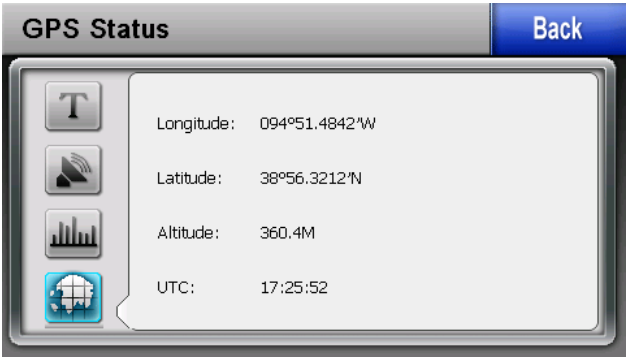


Figure 2-9: GPS Signal Strength Page – Locked and Unlocked

Current Position

Tapping this soft key displays the longitude, latitude, altitude (ALT) and UTC time information for the current position when the device has acquired a GPS satellite lock.



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Figure 2-10: GPS Information of Current position

GPS Data Flow

Tapping this soft key shows the GPS NMEA data in real-time.

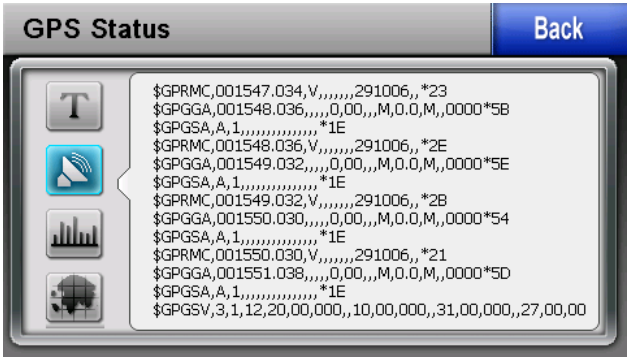


Figure 2-11: GPS Data flow

Satellite Acquisition Reset

Tapping this soft key causes the GPS engine to reset. If the unit has difficulty acquiring satellites, tapping the GPS reset soft key will clear the GPS engine memory.

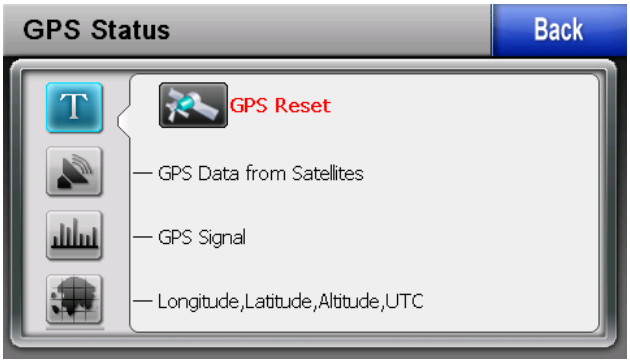


Figure 2-12: GPS Reset

Tap the Back soft key to return to the Settings page.

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3. AVIATION MODE OPERATION

BASIC OPERATION

This section introduces how to start the aviation mode navigation, and what the status of the program is during the initialization process.

Aviation Mode

On the Main Menu page, tap the 

icon to start the Aviation mode navigation program.

Program Startup

While the Aviation mode is starting, a startup title page is displayed, as shown in Figure 3-1.



Figure 3-1: Initial Title Page

A self-test status window is displayed under the title box. The self-test checks to make sure the internal navigation, cartography and terrain databases are correct. While the self-test is checking these databases, the window header **SELF TEST IN PROGRESS** is displayed in yellow.

A green check mark is placed to the right of each test item as it is checked.

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If the initial self-test fails, the unit is unable to continue operating safely. A red is displayed in place of the check mark and the first soft key changes to **HELP**, as shown in Figure 3-2.



Figure 3-2: Self Test Failed

When the HELP soft key is tapped, a caution message is displayed as in **Figure 3-3**.

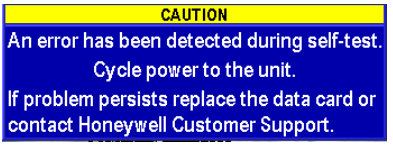


Figure 3-3: Self Test Failed Caution

The unit should be turned off and then turned back on. If AV8OR still fails the self-test, please contact customer support.

If the self-test finishes successfully, the self-test window header changes to **SELF TEST COMPLETED** in green, as shown in Figure 3-4.

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Figure 3-4: SELF TEST COMPLETED Page

The SELF TEST COMPLETED page shows for 2 seconds then the final title page is displayed as shown in Figure 3-5.



Figure 3-5: Final Title Page

The final title page shows the expiration date of the current database. Use the AV8OR as an aid to situational awareness only when the database is current.

For additional information on the current software and database versions, please go to the System Setup page and tap on the **Status Page** soft key to bring up the System Status Menu. Highlight the Software and Database Versions and tap the **Select** soft key to show the current software and software versions.

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The user can browse the Bendix/King web page at http://www.bendixking.com/av8or to see if a newer version of the software or database is available.

If the **OK** soft key is pushed to acknowledge the Jeppesen database, the Aviation Map page is displayed, as shown in Figure 3-7.

If the **DEMO MODE** soft key is tapped, then AV8OR will enter a simulation mode.

Demo Mode

Demo Mode lets the user become familiar with handling the AV8OR system on the ground by running in a simulation mode. When the AV8OR is in Demo Mode, it performs the same as when it is receiving valid sensor signals to use the various functions. Demo Mode can only be activated on the final title page during startup, as shown in Figure 3-5. After tapping the **DEMO MODE** soft key, the simulator shows a caution page which must be acknowledged before continuing.



Figure 3-6: Demo Mode

Tap the **OK** soft key to acknowledge the caution and then the Map page is displayed.

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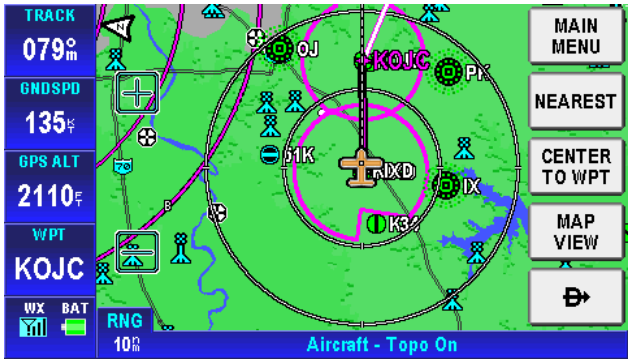


Figure 3-7: Map Page

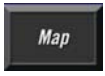
Aviation Main Menu Page

Tap on the **MAIN MENU** soft key on the Map page to display the Aviation **Main Menu Page**.



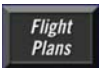
Figure 3-8: Main Menu Page

An example of each function in Aviation Mode appears below. Each function has a specific use and is discussed later in this guide. The following figures are each of the function's first pages.

- **Map:** Tap on the 

soft key on the Aviation Main Menu to return to the Moving Map page. The Map mode is the primary mode of the system. Refer to the VFR Moving Map Function for a detailed explanation of the MAP mode.

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- **Flight Plans:** Tap on the 

soft key on the Aviation Main Menu to show the Flight Plan Index page. The Flight Plan Index page allows user Waypoints (WPT) and flight plans be edited and/or created. Refer to the Flight Plan Function section for a detailed explanation of the use of flight plans.

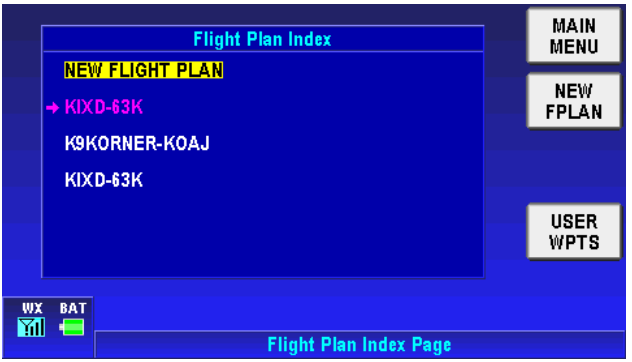
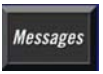


Figure 3-9: Flight Plan – Flight Plan Index Page

- **Messages:** Tap on the 

soft key on the Aviation Main Menu to show the Messages page. Refer to the Messages Function section for a detailed explanation of the Message function.

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Figure 3-10: Messages – Messages Info Page

- **Weather:** Tap on the 

soft key on the Aviation Main Menu to show the Weather page. The AV8OR system connects with a Bendix/King KDR-610 XM receiver or a WxWorx XM receiver through a Bluetooth or RS 232 interface to receive weather data from the XM Satellite Radio network. Refer to the Weather Function section for a detailed explanation of the Weather function. Refer to the Connection to An External Weather Source section in the Appendix for a detailed explanation on how to connect the AV8OR to an XM receiver.

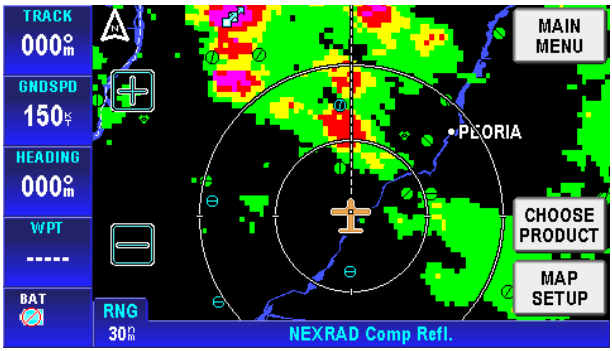
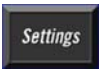


Figure 3-11: Weather – Weather Map Page

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- **Settings:** Tap on the 

soft key on the Aviation Main Menu to show the Settings page. Use the System Setup Menu to setup map, navigation, data fields, flight plan and other display preferences. Refer to the System Setup Function section for a detailed explanation of the system setup function.

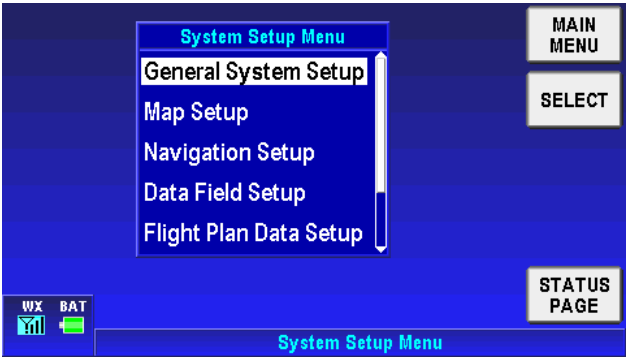


Figure 3-12: System Setup – System Setup Menu page

- **Exit:** Tap on the 

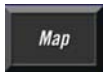
soft key on the Aviation Main Menu to exit back to the Main Menu.

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VFR MOVING MAP FUNCTION

The AV8OR features a real-time moving map that can do much more than just plot your course. The core capability of AV8OR MAP mode function is its intuitive mapping and navigation function, which is capable of displaying highly detailed, vectored (point and line) maps. This detailed vector data includes road over flown data, street address data, airspace boundaries, airports, Navigational Aid (NAVAID)s, lakes, rivers, coastlines, cities, highways and terrain elevation data used to help situational awareness.

Main Map Display Window

On the Aviation Main Menu, tap on the 

soft key to enter the Main Map page, as shown in Figure 3-13.

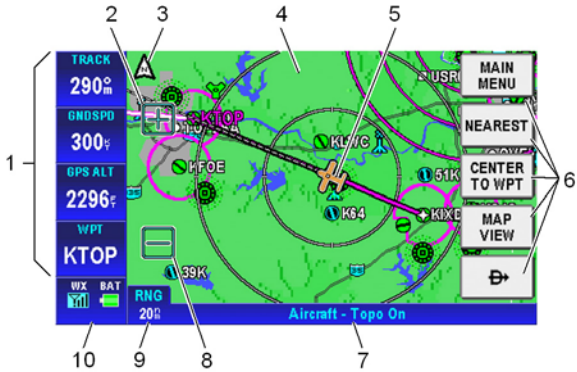


Figure 3-13: Main Map Display Page

- **Data field information (1)**: The data field information is displayed along the left side of the screen. For more information about the data field window configuration please refer to Data Fields in the next section.

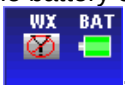
- The **ZOOM IN (2)**  icon decreases the displayed range of the map.

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- **North Pointer (3)**: In the upper left corner of the Map display is a North pointer. The pointer has a triangle shape  . The north pointer always points north to help orient the map view. Double tapping on the north pointer toggles the map orientation between North Up and the Track Up mode.
- **Map Page (4)**: The map page is the main page for Go Fly aviation mode. The map page shows the aircraft position on the map.
- **Aircraft Symbol (5):** A Fixed wing  or Rotary wing  aircraft symbol is displayed in the center of the screen that represents the actual position of the aircraft. The symbol is changed in the System Setup – General System Setup page.
- **Menu Soft keys (6):** The menu soft keys are displayed on the right side of the screen. They allow the user to navigate through the menu directory. The soft keys are shown initially when the Map page is first displayed. After a configurable period of time, the soft keys are removed from the Map page. Tapping on the Map page causes the menu soft keys to display again. The **MAIN MENU** soft key returns to the Aviation Main Menu page.
- **Title Bar (7):** The title bar shows the currently selected map view across the bottom of the Map page.
- The **ZOOM OUT (8)**  icon increases the displayed range of the map.
- **Map Range (9)**: The current range (labeled **RNG** ) is displayed in the range tag window in the lower left corner of the display. The range distance unit (nautical miles, statute miles or kilometers) is configured in the System Setup-GENERAL SYSTEM SETUP page. Range is measured on the map as the distance from the center of the aircraft symbol to the outer ring around the aircraft. The inner ring is at one-half the displayed range value. These rings are turned on or off in System Setup-MAP SETUP page.
- **Status window (10)**: When there is a new aircraft status, a flashing icon is displayed in the status window in the left bottom

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of the data window column 

. The status window also shows the battery condition and the status of the XM weather receiver 

.

- **Caution**: When AV8OR has lost its GPS position fix, a blue "No position data" caution message is displayed across the screen and the aircraft symbol is not displayed.

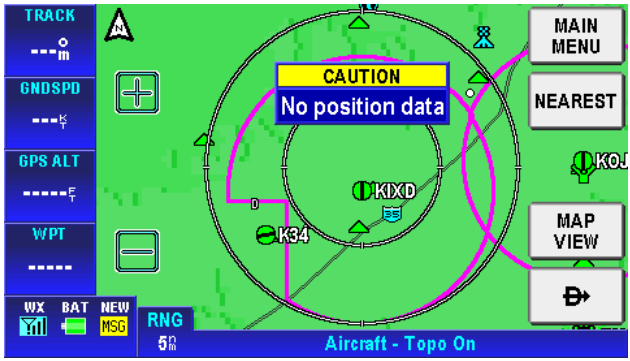


Figure 3-14: Map – No position data CAUTION

If no altitude data is available and the map display option is set to Relative Terrain Map, then a "No Altitude Available" message is displayed.



Figure 3-15: Map – No Altitude Available CAUTION

- **Image overlays on Map page**: The following map image overlays, if enabled are shown on the map.

  Flight Plan: When there is an active flight plan, the legs and turning points of the flight plan are shown (Including Direct-To).

  Flight Log: Flight log points are plotted when the flight log overlay has been enabled for the current map scale.

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- **Map page Pointer/Non-Pointer**:

  The Non-pointer MAP mode screen is displayed showing the aircraft's current position on the map using the aircraft symbol in the center of the screen, if valid GPS signals are available.



Figure 3-16: Map – Non-pointer Map mode

If the soft keys have been hidden, touching anywhere on the screen in the Main Map Window, will activate a black arrow pointer and the **CLEAR PTR** and **PTR** MENU soft keys will be shown. The pointer follows the finger or stylus around the screen until the finger or stylus is lifted from the screen. The pointer can be moved in any direction to interrogate WPTs or specific map features, such as: airports, airspace, user defined WPTs and so on. While the pointer is active the map stops moving to permit easier pointer access to objects, and the aircraft moves over the map.

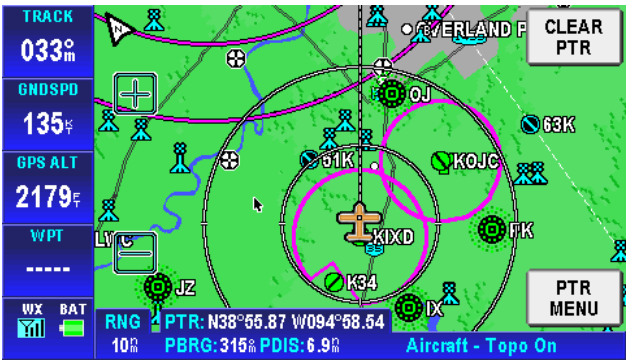


Figure 3-17: Map – Pointer Map mode

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In Pointer Map mode, the pointer tag window displays the pointer position in the currently selected coordinate system. Below the pointer tag window, the title window component displays the bearing and distance of the pointer relative to the aircraft's position.



Figure 3-18: Map – Pointer Tag Window / Title Window

The pointer is removed from the screen after 30 seconds of no further input (touching and dragging of the pointer).

- **Auto-Hide Soft keys**: When the map mode is displayed without touching any control, the on-screen soft key labels are removed from the screen after a period of time that is configurable, as shown in Figure 3-19. The default time is 30 seconds.



Figure 3-19: Map – Without soft keys

For configuration of the Auto-Hide Soft keys, please refer to the General System Setup page in the System Setup section.

The labels are redisplayed when the user touches the screen. This feature maximizes the visible area for mapping. This feature can be disabled by setting the Auto-Hide Keys on the Map Mode Page to OFF in the General System Setup page (Refer to System Setup Function section).

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Data Fields

Up to four data windows can show at a time on the left side of the map page. Up to 9 data windows can be configured for display. The five data windows that do not show on the page are displayed by dragging the data windows up or down to show the data fields that are off screen.

Data fields are selected in the System Setup Menu, Refer to the System Setup Function section.

The Data Fields that follow can be selected for display on the map page.

Altitude Data Field



The Altitude Data Field displays the highest priority enabled GPS altitude source.

Bearing Data Field



The Bearing Data Field displays the bearing of the current destination WPT for the aircraft position in degrees relative to magnetic north.

Course Deviation Indicator (CDI) Data Field



The Course Deviation Indicator Data Field displays the perpendicular distance from the aircraft position to the desired track. The triangle in the center displays whether the aircraft is going TO or FROM the destination WPT. If the triangle points upwards, the aircraft is going **TO** the destination. If the triangle points downwards, the aircraft is going **FROM** the destination.
The table below displays the full scale limits for the CDI.

Units	Available CDI limits
Nm	0.3Nm, 1.0Nm and 5.0Nm
Statute miles	0.4sm, 1.0sm and 5.0sm
Km	0.6km, 2.0km and 10.0km

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Departure Time Data Field



The departure time window displays the departure time when the ground speed of the aircraft is 20 knots or higher. The time is displayed in HH:MM format. The time is dashed if there is no departure time available.

Distance to Waypoint Data Field



The distance to waypoint data window displays the distance from the aircraft to the destination waypoint. The distance is displayed in the currently selected units for distance.

Desired Track Data Field



The desired track data window displays the magnetic angle from the start waypoint to the destination waypoint as an integer value

En-Route Safe Altitude Data Field



The en-route safe altitude data window displays the highest "minimum off-route altitude" along the track line between the start and destination waypoints. The ESA is displayed in the currently selected altitude units.

Estimated Time of Arrival Data Field



The estimated time of arrival data window displays the calculated arrival time calculated as the distance to the destination waypoint, divided by the ground speed, plus the current time.

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Estimated Time En-Route Data Field



The estimated time en-route data window displays the calculated time en route as the distance to the destination waypoint, divided by the ground speed. If the ETE is greater then 10 minutes then the format is HH:MM. If HH is less than 10 then no leading zeroes are displayed. Otherwise the format is MM:SS, with leading zeroes displayed. If the ETE is invalid or greater than 24 hours then "--:--" will be displayed.

Examples are shown in the following table:

1hr 55 min	1	:	55
1min:55 sec	01	:	55
24 min :			24
35 sec	00	:	35

Flight Time Data Field



The flight time data window displays the current flight duration in HH:MM format. The flight timer displays the current time in flight or, if the flight has ended, the duration of the flight just ended. The flight timer begins counting when the ground speed exceeds 20 knots. The flight timer continues until the unit shuts down, or until the ground speed has been below 3 knots for 5 minutes. If the ground speed exceeds 20 knots after the flight time had previously stopped then the flight time continues from the previous flight time.

Groundspeed Data Field



The ground speed data window displays the current aircraft ground speed in the configured units.

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Minimum Safe Altitude Data Field



The minimum safe altitude data window displays the minimum off-route altitude (from the Jeppesen MORA database.) at the current aircraft position.
The MSA value is displayed in the currently selected units for altitude.
If the position is invalid then the MSA value is displayed as dashes.

Near Position Data Field



The near position data window displays the current aircraft position relative to a near-by database feature that is determined by the user configuration.
If the displayed distance to the nearest selected database feature is less than 0.1, in the currently selected distance units, then the position is described as 'AT' the database feature.
If the distance is 0.1 or more then the compass bearing from the database feature is also displayed.
The bearing is one of sixteen compass bearings (e.g. ENE, NE, SSW).
The icon, used to display the database item on the map, is displayed immediately below the ident.
The ident is displayed to the maximum width displayable in the selected data window size.

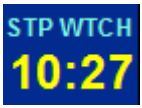
Present Position Data Field



The present position data window displays the coordinates of the aircraft position in the currently selected coordinate system.
If the present position is unknown then dashes are displayed.

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Stop Watch Data Field



The Stop Watch Window displays the current value of the Stop Watch in MM:SS format.
The time counts up from 00:00 when enabled (started) and the text color changes to yellow.
The time stops counting when disabled and the text color changes to white.
The time is displayed as --:-- in white text when the window is first displayed.
The largest value that can show is 99:59 at which time it rolls over to 00:00.

Time Data Field



The time data window displays the current system time in the selected time zone.
The selected time zone abbreviation is displayed in the data window title, after the word TIME.
If the time is unavailable then dashes are displayed.
The table below lists the time zones that are selectable:

Time Zone Abbreviation	Description	Offset from UTC
LCL	Local time – user configurable offset from UTC	User defined
UTC	Universal time	0:00
GST	Greenland Standard Time	-3:00
GDT	Greenland Daylight Saving Time	-2:00
ATS	Atlantic Standard Time	-4:00
ATD	Atlantic Daylight Saving Time	-3:00
EST	Eastern Standard Time	-5:00
EDT	Eastern Daylight Saving	-4:00

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Time Zone Abbreviation	Description	Offset from UTC
	Time	
CST	Central Standard Time	-6:00
CDT	Central Daylight Saving Time	-5:00
MST	Mountain Standard Time	-7:00
MDT	Mountain Daylight Saving Time	-6:00
PST	Pacific Standard Time	-8:00
PDT	Pacific Daylight Saving Time	-7:00
AKS	Alaska Standard Time	-9:00
AKD	Alaska Daylight Saving Time	-8:00
HAS	Hawaii Standard Time	-10:00
HAD	Hawaii Daylight Saving Time	-9:00
SST	Samoa Standard Time	-11:00
SDT	Samoa Daylight Saving Time -	-10:00

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Track Angle Error Data Field



The track angle error data window displays the difference between the desired track and the current aircraft track over ground in integer degrees. An arrow indicates the direction to steer to reduce the track angle error.

Track Angle Data Field



The track angle data window displays the track angle of the aircraft over the ground in integer degrees relative to magnetic north.

Track To Steer Data Field



The track to steer data window displays the calculated optimum track over ground angle to be flown to achieve the desired track to the destination waypoint as an integer value relative to magnetic north.

Waypoint Ident Data Field.



The waypoint ident data window displays the ident of the current destination waypoint.
If the waypoint ident is unavailable then dashes are displayed.
The waypoint ident is truncated to fit into the size of the data window.

Cross Track Error Data Field



The cross track error data window displays the magnitude of, and direction to steer, to reduce the perpendicular

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distance between the aircraft position and the desired track. An arrow is displayed to the right of the cross track error value indicating the direction to steer to reduce the cross track error.

VFR Moving Map Operation

MAP ZOOMING

ZOOM IN or **ZOOM OUT** changes the current map range to the next value. Holding either soft key smoothly increments or decrements (changes the range by 10 percent) through the ranges permitting the user to stop at almost any range value desired. Pushing the opposite ZOOM soft key steps the range in the opposite direction. The map range value will be displayed on the **RNG** label.

The ZOOM IN and ZOOM OUT soft keys disappear when the maximum or minimum limit is reached.

MAP VIEW

The **MAP VIEW** soft key allows the user to select the information to be shown on the map. Tapping the **MAP VIEW** soft key on the MAIN MAP DISPLAY window brings up the **CHANGE VIEW** soft key.

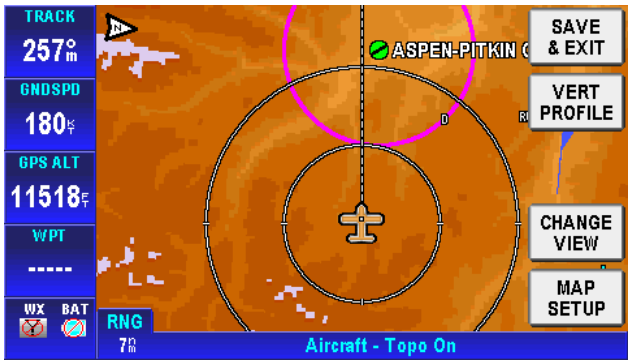


Figure 3-20: Map – Map View Setup

Tap the **SAVE & EXIT** soft key to return to the Map page.

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SmartProfile

SmartProfile displays the vertical profile of the flight path along the route of flight above the title bar. A cross section of the terrain for the flight is shown on the vertical profile. A dashed line is shown to represent the altitude of the flight path.

If SmartProfile is OFF, touching the soft key toggles SmartProfile to ON. The map image shrinks 25%.

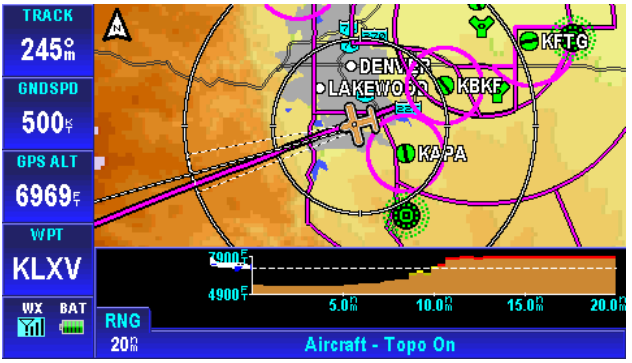


Figure 3-21: Map - Vertical Profile On

If SmartProfile is ON touching the soft key toggles the SmartProfile to OFF.

Tapping the **CHANGE VIEW** soft key toggles the display through the different map types. The Map page defaults to **Topo On**.

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- **Topo On**

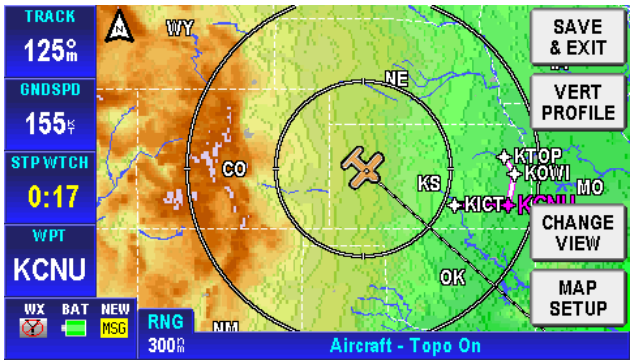


Figure 3-22: Map – Topo On

- **Relative Terrain**

CAUTION

NEVER USE THE TOPOGRAPHIC ELEVATION DISPLAYED ON THIS EQUIPMENT AS YOUR SOLE REFERENCE FOR TERRAIN AVOIDANCE.

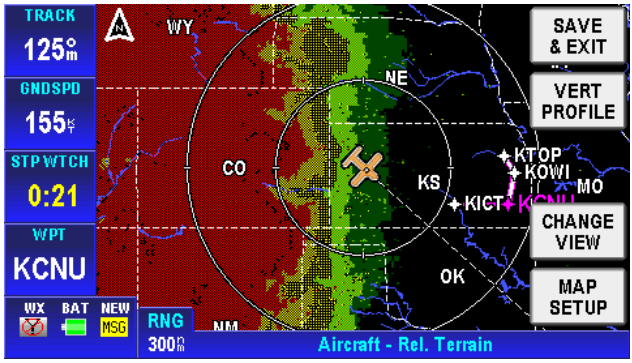


Figure 3-23: Map – Relative Terrain

o On the Relative Terrain map, the terrain is colored according to its height relative to the aircraft, as shown in the following table.

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- A 0.5 Nm radius circle around each is colored according to the height of the obstacle relative to the aircraft, as shown in the following table.

Relative Terrain Altitude (feet)	**Relative Obstacle Altitude (feet)**	**Color**	**Dither Pattern Percent Filled**
>= +250	>= -250	Red	50%
-250 to +249	-750 to –251	Yellow	50%
-750 to –251	-1250 to –751	Yellow	25%
-1250 to –751	-17500 to –1251	Dark Green /Dark Yellow	50%
-2000 to –1251	< -2000 to -1751	Dark Green	100%
< -2000	< -2000	Black	100%

- At ranges of 200 Nm and less, areas not covered by the terrain database are displayed using a 50 % red dithered pattern.
- The Relative Terrain Map is rotated and scaled consistent with the current map location, orientation and range.
- When terrain data is scaled for display, the highest elevation is used for each location to determine its color.
- The 0.5 Nm radius circles around obstacles are displayed only if their radii after scaling are large enough to be shown.
- If altitude information is not available then a warning message is displayed on the map image with the text "No Altitude Available. Relative Terrain Not Displayed."

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Topo Off

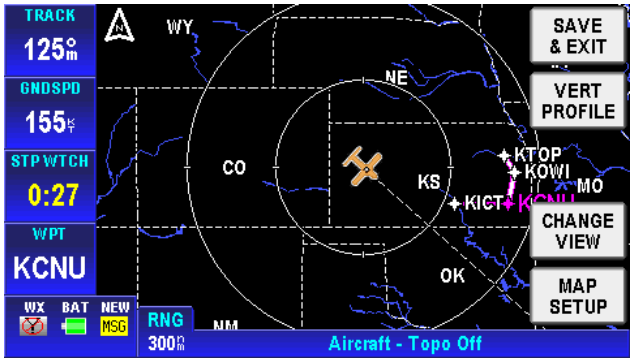


Figure 3-24: Map – Topo Off

Tapping the **MAP SETUP** soft key allows the user to configure the Map Setup options. For more detail information about Map Setup, refer to the System Setup – Map Setup section.

NEAREST – Select Nearest Destination:

The **NEAREST** soft key gives access to the Nearest Database Selection window, as shown in Figure 3-25. The **NEAREST** soft key lets the user get information or navigate using a soft key to any WPT within the nearest database.

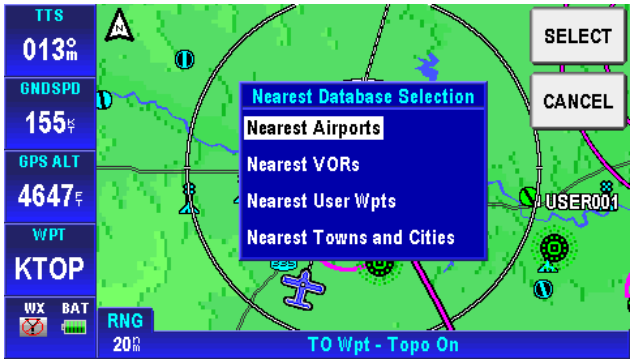


Figure 3-25: Map – Nearest Database Selection

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Tapping the **NEAREST** soft key on the Map page shows the **Nearest Database Selection** menu. In the menu you can select; **Nearest Airports**, **Nearest VORs**, **Nearest User WPTs** or **Nearest Towns and Cities** as a destination.

The 40 nearest Airports/Helipads, VORs or User Waypoints or a combination of them that are nearest to the aircraft's current position are accessible through the Nearest Database Selection menu.

To select an item as your destination from the Nearest Database Selection Menu:

Tap the **NEAREST** soft key in MAP mode.

Select the category (**Near Airports**, **Near VORs**, **Near User WPTs**, **Near Towns and Cities**), using the pointer to highlight the selection.

Tap the **SELECT** soft key to show the list of possible destinations for the selected category.

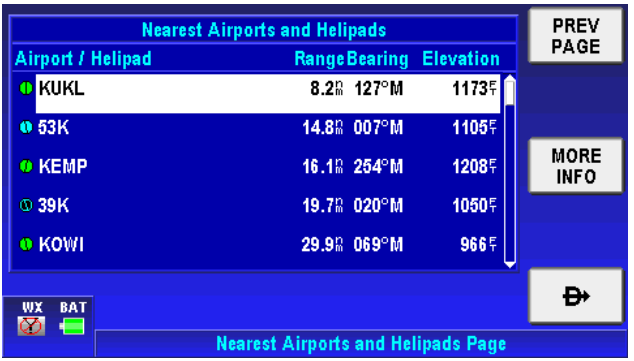


Figure 3-26: Map – Nearest Airport List

The user can select one destination and tap the **MORE INFO** soft key to view the detail information, as shown in Figure 3-27. The **ZOOM IN** and **ZOOM OUT** soft keys allow the user to change the airport area map range. Tap the **NEXT** soft key to display the next page of airport information.

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Figure 3-27: Map – Airport information

For Nearest Airports, tapping the **AIRPORT FILTER** soft key allows the user to configure the airport filter by setting the minimum runway length and surface requirements. The filter will not allow airports below the minimum requirements to be displayed in the list.



Figure 3-28: Map - Airport Filter

When the user has selected (highlighted) the nearest point in the desired destination list, the user taps the soft key. The system sets a new course from the aircraft's present position directly to the desired nearest point's position and shows the new Direct-To course on the map.

To cancel an active Direct-To navigation, tap the soft key, tap the **Clear** soft key on the virtual keyboard and then tap the Enter soft key.

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Figure 3-29: Map – Direct-To OFF

DIRECT-TO NAVIGATION

Direct-To Navigation lets the user set a course line from his current position to any other position. Direct-To Navigation can be done with the methods that follow:

- Create a Direct-To course from the Map.
- Create a Direct-To course from the keyboard entry.
- Re-center the aircraft when Direct-To is already enabled
- Bypass a WPT with a flight plan active
- Enter a new WPT with a flight plan active.

Create a Direct-To course from the Map

Pan and zoom in/out on the map to find the NAVAID point you want to set a course to. Tap on the NAVAID point to show its name, more detail information about the NAVAID point is shown by tapping the **MORE INFO** soft key, as shown in Figure 3-30.

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Figure 3-30: Map - Select a NAVAID

Tapping the **PTR MENU** soft key, on the right side of the screen, shows the soft key.

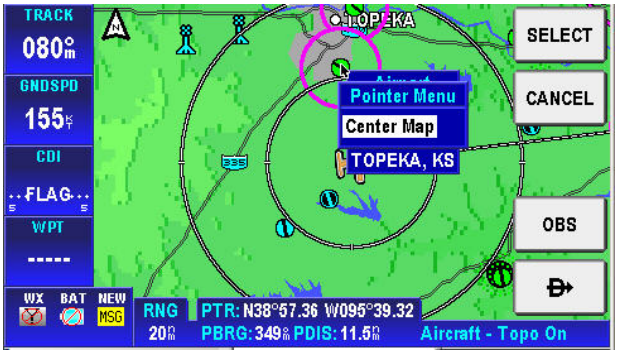


Figure 3-31: Map - Direct To a NAVAID

Tapping the **(direct)** soft key causes the system to create a new course from the aircraft's present position directly to the selected NAVAID point. The new course line is colored magenta.

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Figure 3-32: Map - Navigate to a NAVAID point

Create a Direct-To course from the keyboard entry (No Flight Plan)

Tap the soft key from the Map page to display the virtual keyboard on the screen as shown in Figure 3-33.



Figure 3-33: Map – Virtual Keyboard

Tap the **Esc** soft key to return to the Map page.

Tap the **Clear** soft key to clear the entry you typed in.

The user taps on the keyboard to enter the Ident, name or the location of the existing NAVAID point. The closest match to the entry shows on the page as you type in the data. If the closest match is correct, tap the **Enter** soft key to accept without having to finish typing the complete location.

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After the **Enter** key is tapped, a **Waypoint Entry** screen shows detailed information about the entered location.



Figure 3-34: Map – Entered Waypoint Info

Tap the **CANCEL** soft key to cancel the Direct-To and return to the virtual keyboard page to enter a different location or to **Esc** back to the Map page.

Tap the **MORE INFO** soft key to see additional information about the location. If additional pages are available, the **NEXT INFO** soft key shows. When finished browsing the additional data, tap the **CLEAR** soft key to return to the WayPoint Entry Screen.

Tap the **OBS** soft key to start an **OBS** course and show the magnetic heading from your present position to the WPT.



Tap the **DIRECT TO** soft key to accept the entered location. The system sets a new course from the aircraft's present position directly to the entered WPT's position and shows the new Direct-To course on the Map.

Re-center aircraft when Direct-To is already enabled

When flying on a course using the Direct-To function, if the aircraft gets away from the course line on the map, the pilot can easily

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create a new course line to the destination from the aircraft's present position by using the steps that follow:

Tap the soft key from the Map page to display the virtual keyboard. The active Direct-To destination will already be filled in on the keyboard.



Figure 3-35: Re-center aircraft – Step 1

Tap the Enter soft key to use the entered WPT and re-center the course line from the aircraft's present position to the destination.

Bypass a WPT with a flight plan active

When a flight plan is active, the pilot may want to bypass one of the WPTs in the flight plan and go direct to one of the other WPTs. Use the steps that follow to bypass a WPT.

The active course shows as a magenta line on the Map.

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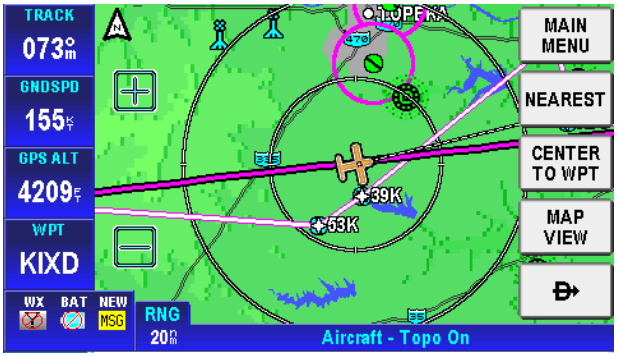


Figure 3-36: Step 1 Bypass a WPT

Tap on the soft key to display the **Active Flight Plan** page.



Figure 3-37: Bypass a WPT - Step 2

Highlight the WPT in the Active Flight Plan you want to go to next.



Figure 3-38: Bypass a WPT - Step 3

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Tap on the soft key to create a new course from the aircraft's present position to the selected WPT.



Figure 3-39: Bypass a Waypoint Step 4

Enter a Direct-To WPT with a flight plan active.

The active course shows as a magenta line on the Map.

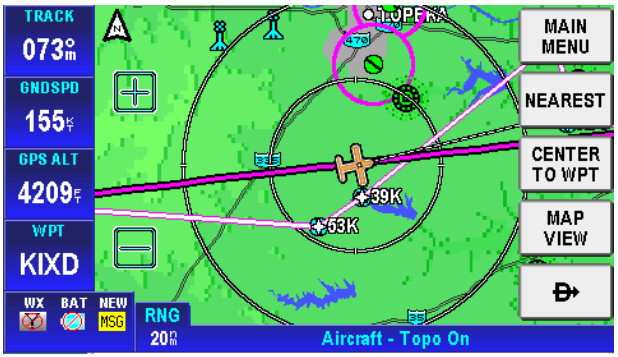


Figure 3-40: Enter a New WPT with Flight Plan Active

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Tap on the soft key to display the **Active Flight Plan** page.



Figure 3-41: Enter New WPT – Select KEYBD Soft key

Tap on the **KEYBD ENTRY** soft key to display the virtual keyboard entry screen with the next WPT entry already entered.

Enter the new WPT you want to go direct to.

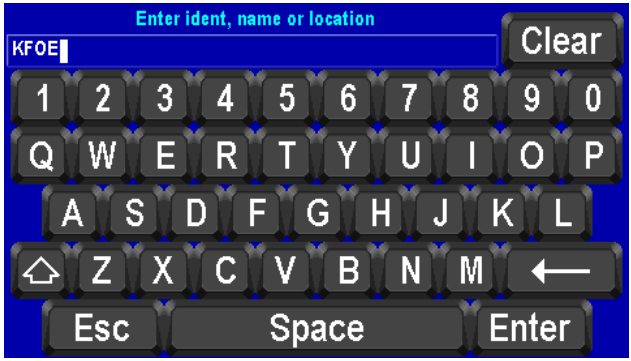


Figure 3-42: Enter New WPT Ident

Tap on the **Enter** soft key when done and then tap on the **OK** soft key to activate the Direct-To WPT. This will suspend the active flight plan and create a new course from the aircraft present position to the selected location. The new course shows in a magenta color.

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Figure 3-43: New Direct-To Active.

PTR MENU

When you tap a NAVAID point or any blank place on the map, the PTR MENU soft key is displayed. Tap the **PTR MENU** soft key to show the pointer menu. Using the menu you can save this Waypoint or Center the map around the selected point.



Figure 3-44: Map – NAVAID Point PTR MENU

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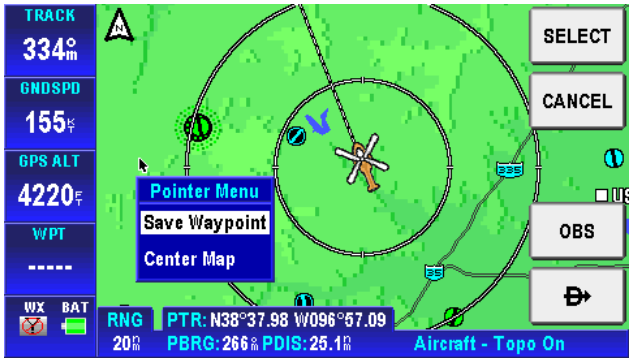


Figure 3-45: Map – User Defined Point PTR MENU

Choose the Center Map item and tap the **SELECT** soft key to display the pointer position at the center of the map.

Choose the Save Waypoint item, and tap the **SELECT** soft key, a user defined WPT is created at the point position on the map with the name USRXXX, as shown in Figure 3-46.

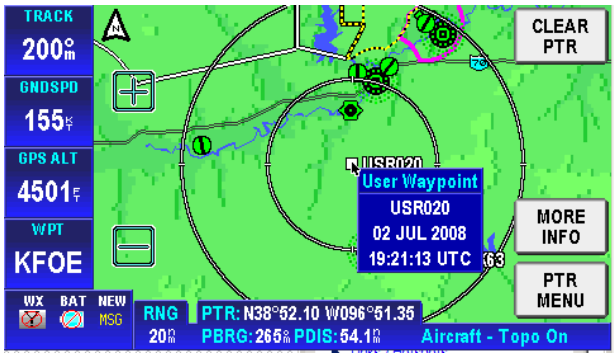


Figure 3-46: Map – User Defined Waypoint

PTR MENU – DIRECT-TO Navigation

The **DIRECT TO** shows the course to navigate the aircraft to the desired WPT directly when the WPT was selected from the pointer map mode screen. When the user moves the pointer arrow to any desired map location, the pointer's position (PTR), bearing (PBRG)

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and distance (PDIS) are shown on two lines at the bottom left of the screen



To select a user defined point on the map:

If the user taps on a point on the map that is not a NAVAID pointer stored in database, taps on the **PTR MENU** soft key and then taps the soft key, a temporary WPT named USRXXX is created at the pointer position on the map and a new course from the aircrafts present position directly to the selected NAVAID point is created. The new course line is colored magenta.

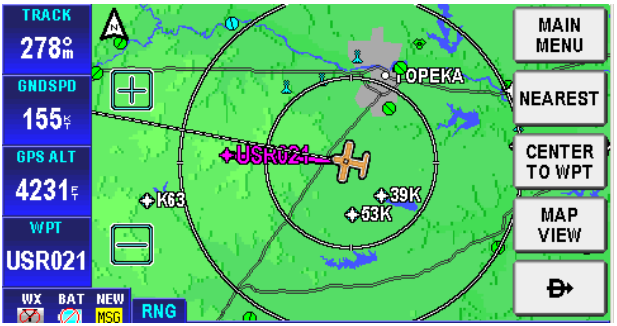


Figure 3-47: Map – Navigate to a user defined WPT

PTR MENU – OBS Navigation

To select a NAVAID point on the map:

If the user touches a NAVAID point on the map and taps the **PTR MENU** soft key, the **OBS** soft key will be shown. After the **OBS** soft key is tapped, the OBS window shows the magnetic course to the NAVAID.

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Figure 3-48: OBS Course to NAVAID

To select a user defined point on the map:

If the point the user touches is not a NAVAID point, then after the **OBS** soft key is tapped, a temporary WPT is created at that position. The OBS course ends at that user defined temporary WPT.

To edit the OBS Course Angle, double tap on the OBS Course Window to open a key pad.

After the OBS point is selected the OBS course selection window is shown and the **DONE**,  and **CANCEL OBS** soft keys are displayed, as shown in Figure 3-49.



Figure 3-49: Map –OBS Start

Tap the **DONE** soft key and the adjusted OBS course is activated and a course is generated to the selected point, as shown in Figure 3-50.

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Figure 3-50: Map – OBS Navigation

Tap the **OBS ADJUST** soft key to show the following window.



Figure 3-51: Map – OBS Configuration

Here double tapping on the OBS Course window allows the user to adjust the OBS course.

Cancel the OBS using the ⇻ or **CANCEL OBS** soft keys.

Center Map

In pointer map mode (User taps on the map and a black pointer is shown and the **PTR MENU** soft key is tapped), the **CENTER MAP** soft key is shown as an option on the **Pointer Menu**. Refer to Figure 3-45.

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The **CENTER MAP** option is tapped to center the map on the PTR position on the map.

Tap on the **CLEAR PTR** to return clear the PTR position and center the aircraft on the map. The PTR position will remain centered on the Map for a period of time and then the Map page changes to show the aircraft position centered on the Map.

Center To WPT/Center Aircraft

After any kind of navigation was activated, in Non-Pointer mode, the **CENTER TO WPT** soft key is shown for the user to view the WPT position on the map.

The **CENTER TO WPT** soft key changes to a **CENTER AIRCRAFT** soft key after the **CENTER TO WPT** soft key is tapped.

The **CENTER AIRCRAFT** soft key is shown for the user to show the aircraft's present position on the map.



Figure 3-52: Map – Center to WPT

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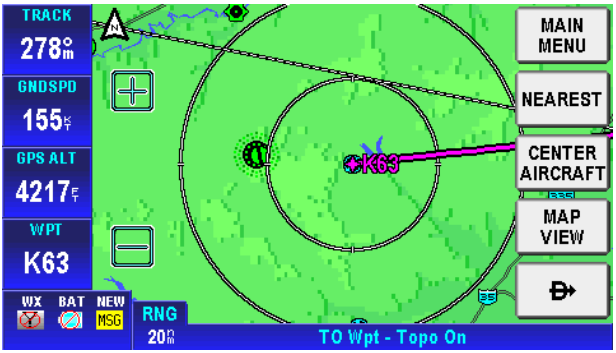


Figure 3-53: Map – Center Aircraft

Selectable GPS Data Source

The AV8OR system can receive data from either the internal or an external GPS Source. When an external source is configured, the unit uses data from it. Switching to the internal GPS source is automatic when data from the external source is no longer valid or available.

AUTONAV

When enabled, AutoNav allows the AV8OR to automatically switch to the internal GPS source when the external source is unavailable or has failed.

The AutoNav function is not enabled until both the internal and the external position source have acquired a valid satellite fix or the Go Fly program has been running for 4 minutes.

If the external position source is invalid for more than 5 seconds, the Go Fly program will switch to the internal GPS antenna.

The following sequence of events occurs:

- If the flight plan source is the external GPS, then the flight plan is captured and cross-referenced to the internal database.

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- The following warning message is displayed that requires pilot confirmation.
  "The external GPS source is no longer available. The GPS source has been changed to the internal GPS backup. GPS limited to VFR use only. PRESS OK TO ACKNOWLEDGE".
- Touching the OK soft key closes the message window.
- If the external GPS source becomes valid again for a period of more than 5 seconds, the AutoNav function automatically switches back to the external GPS source.
- The following warning message window is displayed that requires pilot confirmation.
  "The external GPS source is now available. The GPS source has been changed to the external GPS source. PRESS OK TO ACKNOWLEDGE".
- Tapping the OK soft key closes the message window.

STOP WATCH



Figure 3-54: Stop Watch Data Field

The stopwatch can be started or stopped only when the 

data window shows on the Map screen.

When the stopwatch is stopped, double tap the 

icon to start the timer.

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When the stopwatch is running, double tap the 

icon to stop the timer. Double tap the 

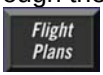
icon to reset it.
When the stopwatch is active, it continues to count even if the stopwatch data window is not being displayed.

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FLIGHT PLAN FUNCTION

VFR flight plans can be created in the AV8OR-XP when configured to use the internal GPS.

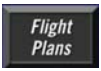
Flight plans can also be created on a PC with the Jeppesen FliteStar© PC application. Refer to the Chapter 7 Appendix section, for more information on how to import a flight plan.

The **FLIGHT PLAN** function is selected through the Aviation **Main Menu**, as shown in Figure 3-7. Tap on the 

icon to open the Flight Plans page.

Creating New Flight Plan using the Virtual Keyboard

A maximum of 100 flight plans can be stored in the AV8OR. Each flight plan can contain up to 99 WPTs. To create a new flight plan, perform the following steps.

Tap the 

soft key on the Aviation Main Menu Page to show the Flight Plan Index page. Initially, when no flight plans have been stored, a blank screen is displayed, as shown in Figure 3-55**.**

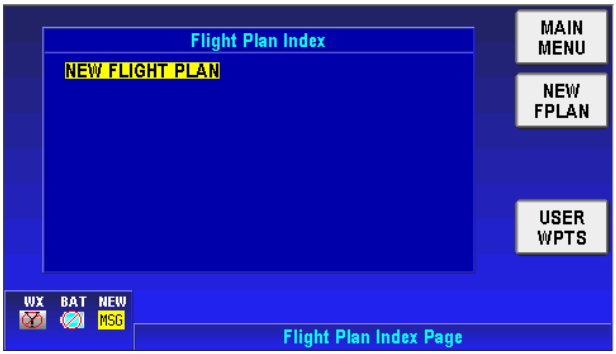


Figure 3-55: Flight Plan - Index Page with no Flight Plan

The **NEW FLIGHT PLAN** line is highlighted. Tap on the **NEW FPLAN** soft key to show the New Flight Plan page. In this page, you can enter a WPT using the keyboard.

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Figure 3-56: New Flight Plan Page

Tap on the **INSERT** soft key to display the virtual keyboard to page to enter WPTs.



Figure 3-57: Virtual Keyboard

Enter the Ident, name, WPT or location of the first location on the flight plan.

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Figure 3-58: Enter Waypoint Identifier

Tap on **Esc** soft key to cancel the entry.
Tap on the **Clear** soft key to clear the entry and start over.
Tap the **Enter** soft key when complete to show the Waypoint Entry window.



Figure 3-59: Waypoint Entry Window

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Tap the **MORE INFO** soft key to view additional data about the WPT. The **NEXT** soft key will show if additional pages are available. When finished, tap the **CLEAR** soft key to return to the Waypoint Entry page.
If the WPT is not correct, tap on the **CANCEL** soft key to return to the virtual keyboard page.
If the correct WPT is shown, tap on the **OK** soft key to save the first WPT on the flight plan.
Tap on the **INSERT** soft key to add additional WPTs to the flight plan and do the same steps as shown above to accept each WPT until all the WPTs are entered.



Figure 3-60: All WPTs Entered into Flight Plan

Tap on the **SAVE & EXIT** soft key to save the flight plan. The flight plan now displays on the **Flight Plan Index** page.

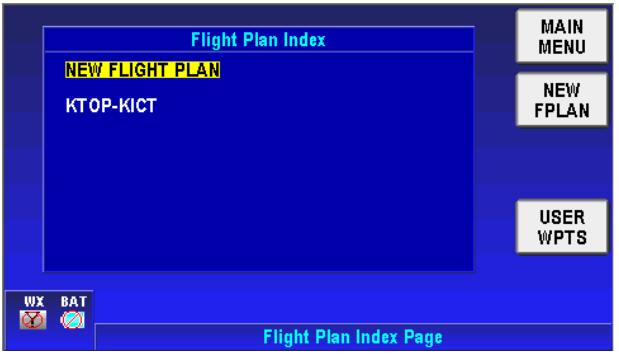
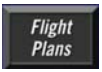


Figure 3-61: Flight Plan Saved

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Creating New Flight Plan using MAP Selections

1. Tap the 

soft key on the Aviation **Main Menu Page** to show the Flight Plan Index page.

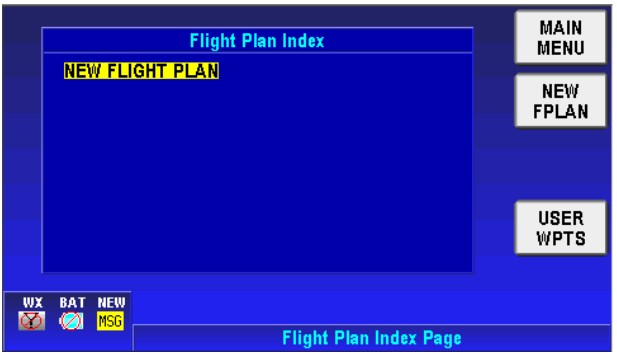


Figure 3-62: Flight Plan Index

2. The **NEW FLIGHT PLAN** line is highlighted. Tap on the **NEW FPLAN** soft key to show the **New Flight Plan** page, as shown in Figure 3-63.



Figure 3-63: New Flight Plan Page

3. Tap on the **MAP VIEW** soft key to show a map to select WPTs from. In this page, you can select the waypoint on the map using the cursor. When you tap a waypoint on the map, the name of the waypoint is shown in a pop-up window.

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Figure 3-64: Flight Plan – Map Selction of WPTs

4. Use your finger or stylus to pan the map to the first WPT you want to enter into the flight plan. Use the Zoom In and Zoom out icons to make it easier to pan the screen.

5. Tap on the WPT to show the name and identifier.



Figure 3-65: Flight Plan - Waypoint Detail

To view detailed information about this point, tap the **MORE INFO** soft key on the right of the page. The selected WPT detailed information is displayed, as shown in Figure 3-66.

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Figure 3-66: Flight Plan - Selected Waypoint Detail Information

Tap the **CLEAR** soft key to close the WPT detailed information window.

6. After you select a WPT, tap the **INSERT WPT** soft key to insert that WPT into the new Flight Plan. The first WPT is displayed in the Flight Plan, as shown in Figure 3-67.



Figure 3-67: Flight Plan - Stored Flight Plan with a Waypoint

7. Use the **INSERT WPT** soft key to continue inserting WPTs until the Flight Plan is complete. Tap the **CLEAR PTR** soft key to show the **SAVE&EXIT** soft key, as shown in Figure 3-68.

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Figure 3-68: Flight Plan - Save Waypoint

8. Tap the **SAVE&EXIT** soft key to save the selected WPTs, exit from the Stored Flight Plan page and return to the Flight Plan Index page. The name of the flight plan is displayed in the Flight Plan Index page, as shown in Figure 3-68

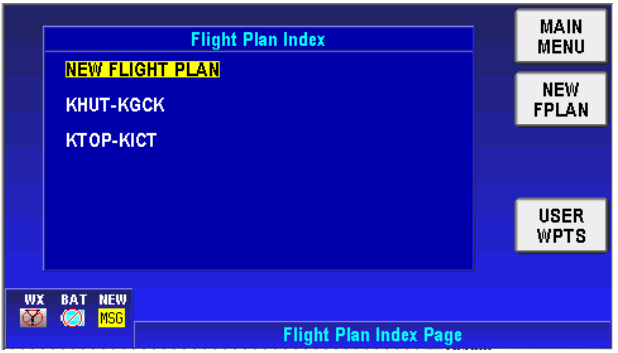


Figure 3-69: Flight Plan – Flight Plan Accepted

9. If you want to create another new Flight Plan, repeat steps 2 through 8.

Stored Flight Plans Processing

Select an existing Flight Plan and **EDIT FPLAN**, **FPLAN ADMIN**, **USER WPTS** and **FLY FPLAN** soft keys are displayed on the right side of the page,

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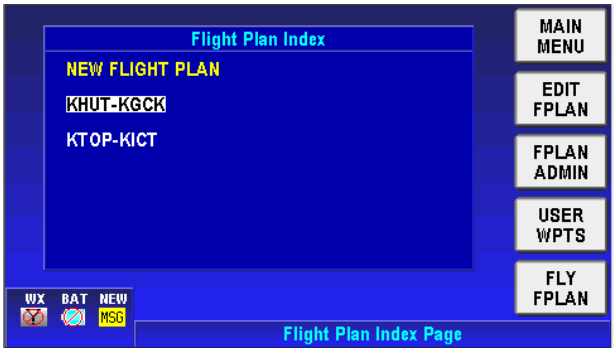


Figure 3-70: Flight Plan Index Page

EDIT FPLAN

Tap the **EDIT FPLAN** soft key to enter the stored flight plan page in data view mode. Here the user can edit the flight plan using map view mode or data view mode. On the bottom right side of the page is the **MAP VIEW** switch soft key.

To change the title of the Flight Plan, tap on the flight plan NAME field. The keyboard window will open with the current name preloaded in the name field.

DATA VIEW mode

In data view mode, the flight plan WPTs are displayed in table format, including each WPT's detailed information. Highlight a WPT to delete it or to insert a new waypoint before it or highlight the dashed line to insert a new WPT at the end of the flight plan.

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Figure 3-71: Flight Plan - DATA VIEW

Tap the **MAP VIEW** soft key to switch to map view mode.

MAP VIEW mode

In map view mode the user can select a WPT on the map, draw and move the map, tap on the map to insert a WPT. If the tap point is a current WPT in the flight plan the **DELETE WPT** soft key is shown to allow the user to delete it from the flight plan. If the tap point is not in the flight plan the **INSERT WPT** soft key is shown to allow the user to insert it into the flight plan.



Figure 3-72: Flight Plan Selected WPT from Map

When the user taps on one of the WPTs in the WPT list, the map moves to the selected WPT area. The user can also delete selected WPTs here. If the user taps on the dashed line the **INSERT** soft key is available to insert a WPT.

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FPLAN ADMIN

Tap the **FPLAN ADMIN** soft key and the corresponding function soft keys on the right side of the Flight Plan Index page are shown.

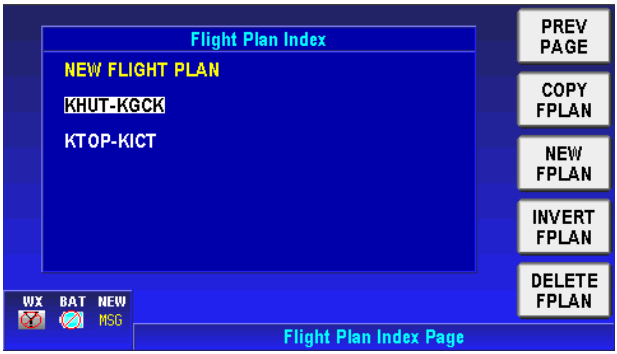


Figure 3-73: Flight Plan - FPLAN ADMIN

COPY FPLAN

Highlight the flight plan you want to copy and then tap the **COPY FPLAN** soft key. This function permits the selected flight plan to be copied for editing while not changing the original one.

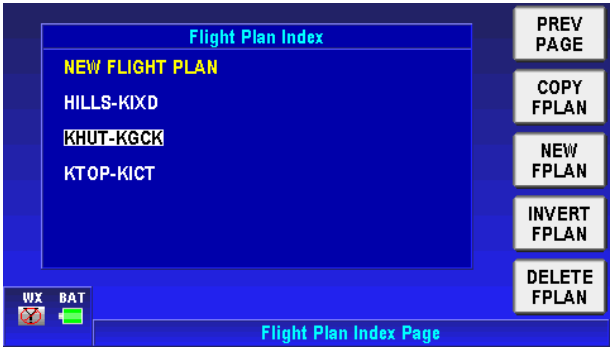


Figure 3-74: Flight Plan - COPY FPLAN

NEW FPLAN

This function is the same as the one introduced before in the **CREATING NEW FLIGHT PLAN** section.

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INVERT FPLAN

This function reverses the selected flight plan's WPT sequence. This lets the pilot return from a destination to the same starting point without creating a new flight plan.

Highlight the flight plan that you wish to invert.

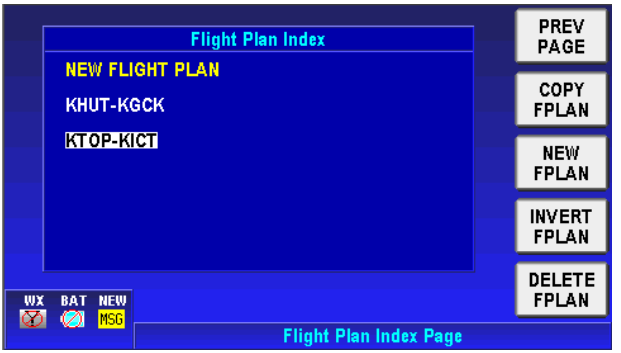


Figure 3-75: Invert Flight Plan - Step 1

Tap on the INVERT FPLAN soft key to show the flight plan with the WPTs inverted from the stored flight plan.



Figure 3-76: Invert Flight Plan - Step 2

Tap the **SAVE & EXIT** soft key to invert the flight plan. The flight plan now shows on the **Flight Plan Index Page** with the WPTs inverted.

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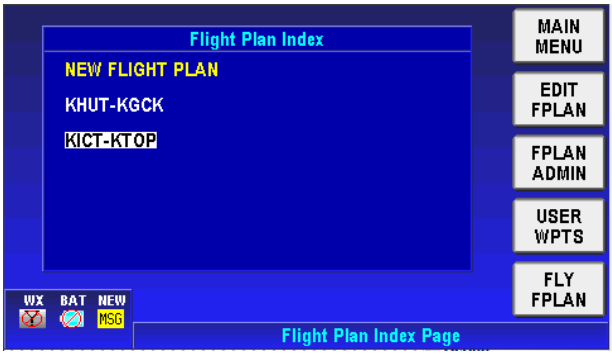


Figure 3-77: Invert Flight Plan - Step 3

DELETE FPLAN

This function deletes the selected flight plan

Highlight the flight plan on the **Flight Plan Index Page** you want to delete and tap on the **DELETE FPLAN** soft key.

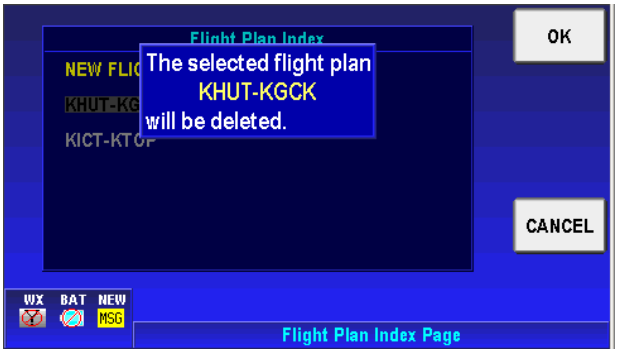


Figure 3-78: Delete Flight Plan

USER WPTS

Tapping the **USER WPTS** soft key shows the current User defined WPTs list. Refer to Figure 3-79**.**

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Figure 3-79: Flight Plan - User Waypoint List

The user can tap the **NEW WPT** soft key to define a new WPT. A maximum of 1000 user WPTs can be created.

The user can also tap the **EDIT WPT** soft key to edit the selected WPT's parameters.

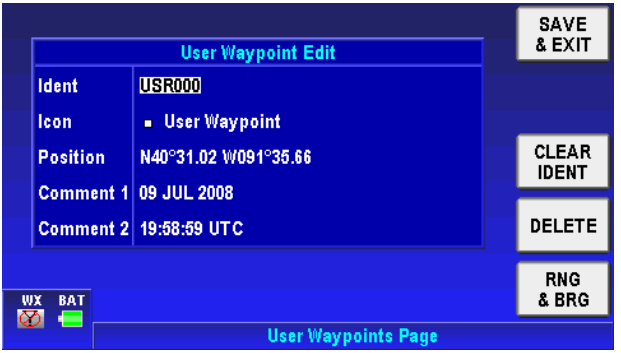


Figure 3-80: Flight Plan – New/Edit User Waypoint

When the user creates a new WPT or edits an existing WPT, the User Waypoint Edit page is shown. The AV8OR system creates a default: Ident name, Icon, Position, Comment 1 and Comment 2 parameters for the new WPT. The default Ident name is in the format USRXXX and the default position is the current aircraft's position.

In the User Waypoint Edit page the user can edit all these parameters. Highlight the Ident item, and the **CLEAR IDENT** soft key becomes available to clear the current Ident name. Highlight the

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Comment 1 / Comment 2 items and the **CLEAR TEXT** soft key becomes available to clear the comment text.

Tap the RNG&BRG soft key to display the range and bearing configuration page.

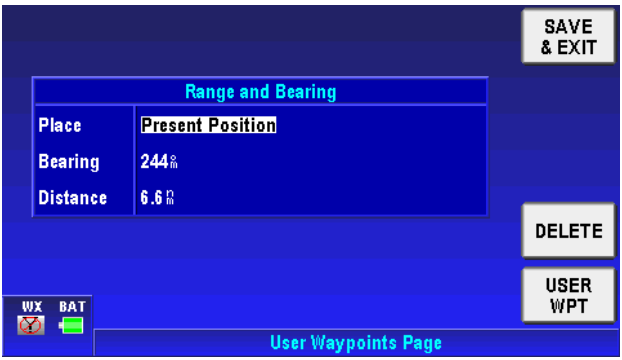


Figure 3-81: Flight Plan – WPT Range and Bearing Config

In the Range and Bearing page the **DELETE** soft key allows the user to delete this WPT. The **SAVE&EXIT** soft key saves all WPT configurations and exits to the User Waypoint List page (*Note: If the user entered the User Waypoint Edit page from the VFR moving map page, then this screen will return to the VFR moving map page.*) Tap the **USER WPT** soft key to return to the User Waypoint Edit page.

FLY FPLAN

After creating/editing the Flight Plans you can highlight the desired one and activate it for navigation.

1. Highlight the desired Flight Plan.
2. Tap the **FLY FPLAN** soft key to display the message shown in Figure 3-82.

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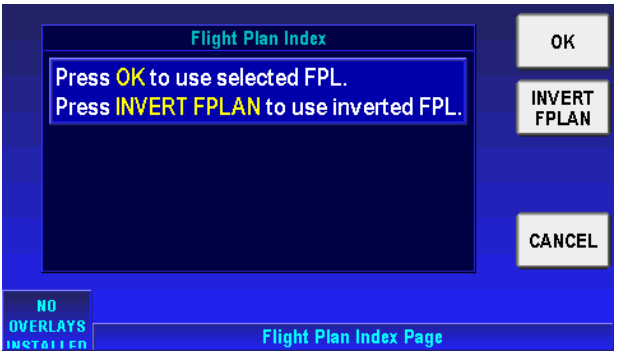


Figure 3-82: Flight Plan - FLY FPLAN

3. Push the **OK** soft key to use the selected flight plan. When desired, the selected flight plan is navigated in reverse by tapping the **INVERT FPLAN** soft key.

4. The Active Flight Plan page lists the current active Flight Plan's WPTs, as shown in Figure 3-83. The WPT in magenta with the arrow pointing to it is the current WPT.

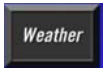


Figure 3-83: Flight Plan – Active Flight Plan

5. After activating a flight plan the Active Flight Plan page is shown. Tap the **STORED FPLANS** soft key to go to the Flight Plan Index page. The active flight plan is shown in magenta color. When the active flight plan is selected, tap the **FPLAN OFF** soft key to deactivate the flight plan. The flight plan course is removed from the map.

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WEATHER FUNCTION

Tap the 

soft key on the Aviation Main Menu page to enter the weather page.

Hardware Accessory

The AV8OR unit will work with either the WxWorx REWX91D XM receiver or the certified KDR 610 XM receiver. See Device Setup Section of this document.

The XM Weather receiver is used to receive the weather information which in then displayed on the screen.

NOTE: In order to use this feature, the user must purchase and activate a subscription from XM Satellite Radio (XM).

Receiving Weather Data

The AV8OR system connects with the WxWorx REWX91D XM receiver through the Bluetooth interface or either of the XM receivers through the serial (RS 232) interface to receive weather data from the XM Satellite Radio network.

The following products are supported by the AV8OR:

- NEXRAD
- Satellite Mosaic
- TAFs
- METARs
- Severe Wx Storm Tracking
- Airmets
- Sigmets
- Convective Sigmets

If no data has been received from the XM receiver, a caution message will be displayed.

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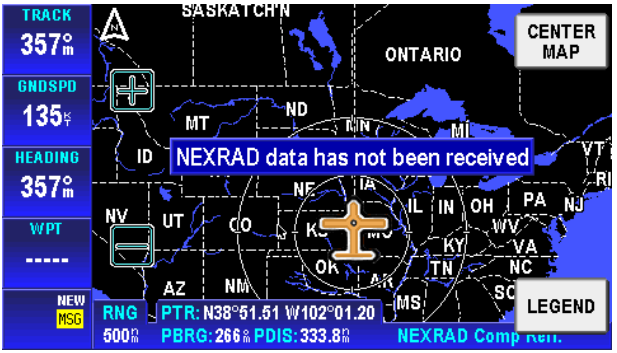


Figure 3-84: WX – No Data Received

Choose Product

Once data has been received from the XM Receiver, the **CHOOSE PRODUCT** soft key is available to select the desired weather information products.

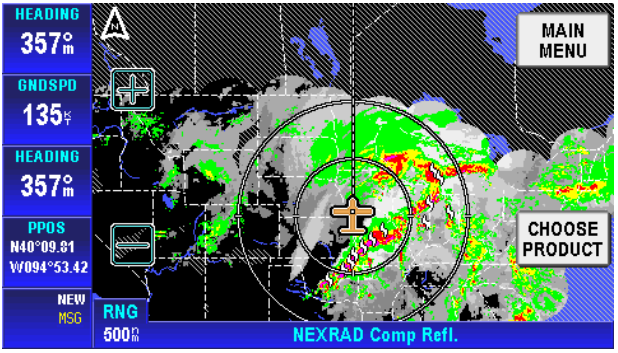


Figure 3-85: WX – Non-pointer mode

Select from the products shown in white. Highlight an available product and tap the **SELECT** soft key to complete the product selection.

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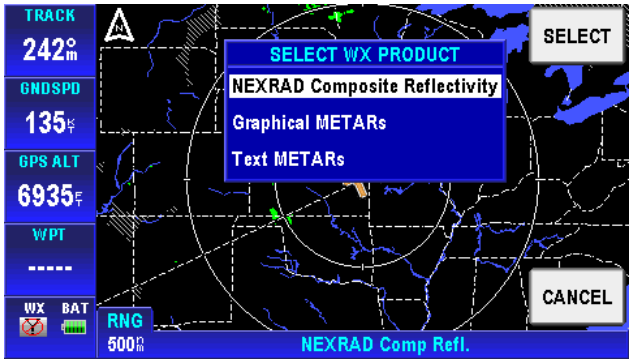


Figure 3-86: WX – Choose Product

The AV8OR can now show the following Weather Products:

- **NEXRAD Composite Reflectivity**

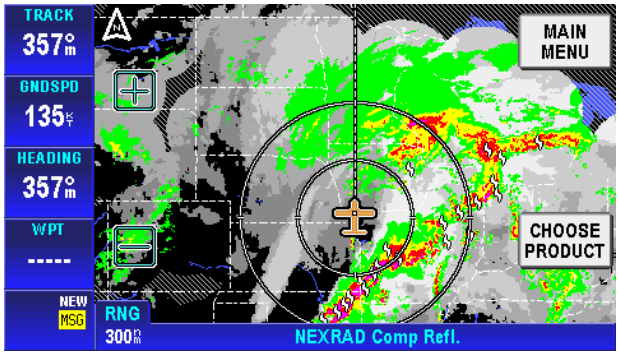


Figure 3-87: WX – NEXRAD

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- **Graphical METARs**

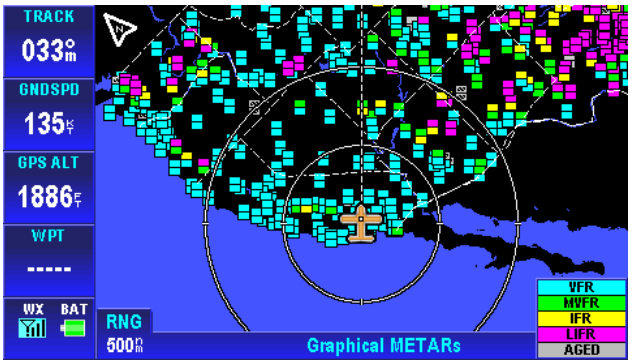


Figure 3-88: Graphical METARs

- **Graphical AIRMETs**

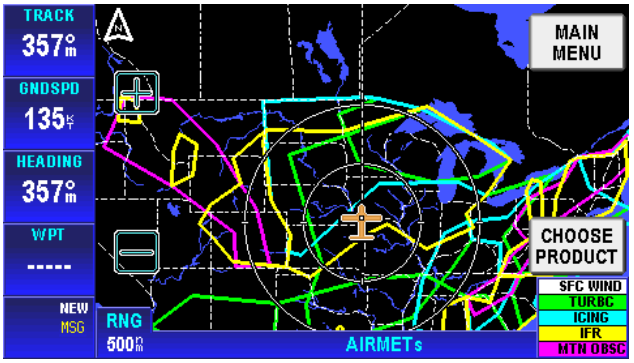
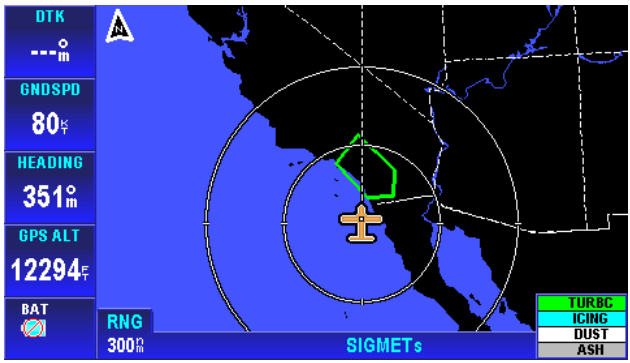


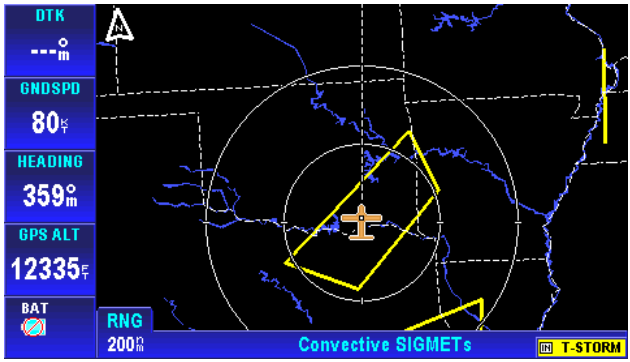
Figure 3-89: WX - AIRMETs

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- **Graphical SIGMETs**



- **Graphical Conv-SIGMETs**



Legend

In pointer mode (the user taps on the map and a black arrow pointer is shown) the **LEGEND** soft key is used to display the Legend Window.

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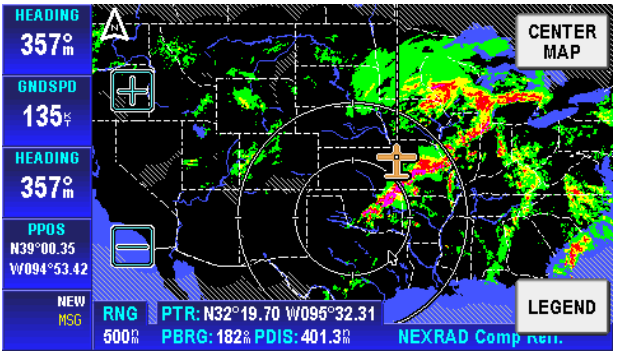


Figure 3-90: WX – Pointer mode

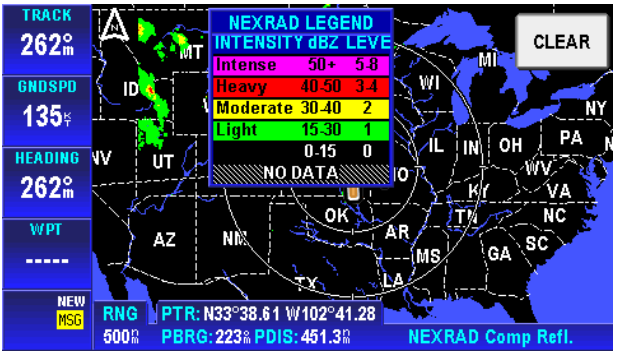
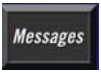


Figure 3-91: WX – Legend Info

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MESSAGES FUNCTION

Tap on the Messages soft key 

from the Main Menu page to enter the Messages page.



Figure 3-92: Messages

The User can also access the Messages page when a new message is indicated in the Status Window. Tap the flashing new message Status Window in any other function page and the Messages page is shown.

The Message soft key stays active until the message has been viewed or the message has been removed from the queue.
If the number of system messages exceeds the area on the display, a scroll bar is displayed to let the user to scroll through all of the messages.

The table that follows lists the different messages that can be displayed.

Message Text	**Cause**
Airspace Alert [followed by name, type and limits of airspace]	When airspace alerting has been enabled and the aircraft is within the alerting zone
Inside SUA [followed by name, type and limits of airspace]	When airspace alerting has been enabled and the aircraft is inside the airspace

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Message Text	**Cause**
Internal GPS failure	When the internal GPS is configured but no data is being received from it
Nav data Referenced to True North	When the operator has elected to use a manually input magnetic variation offset of ZERO
Nav data Referenced to User-Defined Mag Var	When the operator has elected to use a manually input magnetic variation rather than AUTO
Unit Configuration validation errors found, values set to default.	Some System setting were out of range and were set to defaults
User setting validation errors found, values set to default.	Some User settings were out of range and were set to defaults
Unit Configuration cleared to Defaults	The System settings NVM could not be used so default settings were used instead
All User Settings cleared to Defaults	The User settings NVM could not be used so default settings were used instead
Failed to save user settings	All attempts to save & back up User/System/Volatile data failed.
Unit History Data cleared to Defaults	The Volatile settings NVM could not be used so default settings were used instead
Detailed terrain database is invalid	The fine terrain database could not be loaded from the card or its checksum was found to be invalid.
Failed to read FPL file	A flight plan file could not be read.
The FPL file had formatting errors	The format of a flight plan file was incorrect.
Failed to read user WPT from file	User WPTs could not be read from a flight plan file.
Failed to read flight plan from file	a flight plan could not be read from a flight plan file.
Failed to read FPL	A flight plan WPT could not be read

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Message Text	**Cause**
WPT from file	from a flight plan file.
Failed to merge user WPT from file	While merging WPTs from a flight plan file, a WPT was found with an ident matching an existing WPT, but at a different location.
Not enough available space to merge user WPTs	There is not enough memory to merge in WPTs from a flight plan file.
Failed to merge FPL WPT	A user WPT in a merged flight plan was not found in the user WPTs data.
Not enough space to merge flight plans	There is not enough memory to merge in flight plans from a flight plan file.
Duplicate user WPT in flight plan file	While loading user WPTs from a flight plan file, a WPT was found with an ident matching an existing user WPT.
User Waypoint memory full	A WPT loaded from a flight plan file could not be stored because user WPT memory was already full.
Flight plan WPT(s) not found in database have been deleted	When one or more of the WPT references in a flight plan file do no exist in the database
Error writing flight plan data to data card	When the software encounters an error while trying to write a flight plan file.
Unable to save a flight plan backup	All attempts to back up the flight plan data failed.
Unable to convert flight plan data after DB update, all user flight plans deleted	When the system detects a changed database but cannot find a current backup of the flight plan resulting in all user flight plans to be deleted
Battery Low	Generated when the battery level remaining drops below 25% of full charge

Notepad

Tap on the **NOTE PAD** soft key to display customized checklists.

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The checklists can only be created, edited and deleted on a PC and then transferred to the SD card. In order to create a valid checklist and allow the software to find the checklists the following rules must be followed:

- The Checklists must be stored in the \GoFly\data\user\Notepads directory on the SD card.
- Checklists must be text files.
- The filename must have the .txt extension. (Example is "emergency.txt")
- The file size must be less than 16,384 bytes.
- A text file with the name "route.txt" is an invalid notepad filename and is not recognized. The filename "route.txt" is used to load flight plan and WPT data.
- The name assigned to the file will be the name displayed on the checklist page. Therefore, the name should be representative of the function the checklist is performing. An example is "Engine Start".

- Checklists must be created using the following rules:
- Each checklist item should start with [] square brackets to create an easy to read checklist.
- The [] brackets are interpreted as a check box indication and can appear anywhere.
- Each checklist item must end with a carriage return.
- The number of characters on each line should be limited to 50 or fewer characters. If more than 50 characters are on a line, then the text will wrap to the next line.
- Everything is displayed as typed.

An example checklist is shown below:

[] Entry 1
[] Entry 2
[] Entry 3
[] Entry 4
[] Entry 5
[] Entry 6

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When checklists are available, tap on the **NOTE PAD** soft key to show a menu of the available checklists.

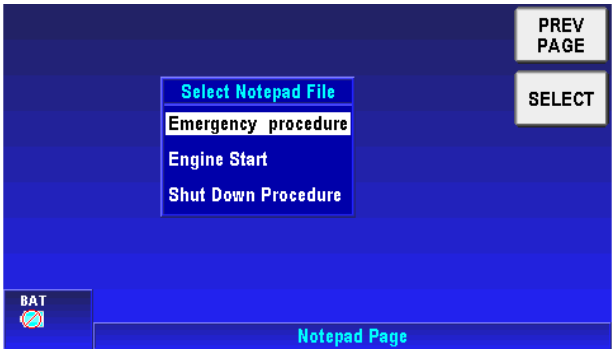


Figure 3-93: Notepad Page

Highlight a checklist and tap the **SELECT** soft key to display the checklist.

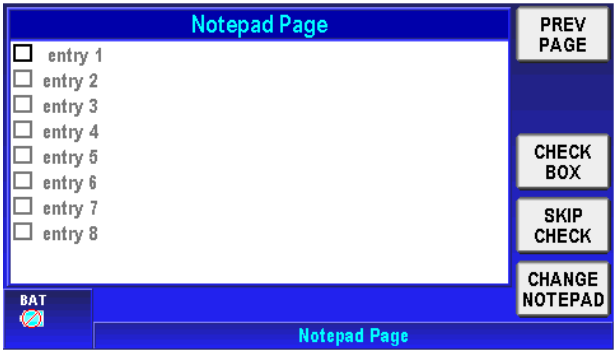


Figure 3-94: Checklist Page

Tap the **PREV PAGE** soft key to return to the Notepad Page.

Tap the **CHECK BOX** soft key to put a check mark in the first checkbox.

Tap the **SKIP CHECK** soft key to skip to the next check box.

Tap the **CHANGE NOTEPAD** soft key to change to a different checklist.

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SYSTEM SETUP FUNCTION

Tap the System Setup 

soft key on the Aviation Main Menu page to enter the System Setup Menu page, as shown in Figure 3-95.

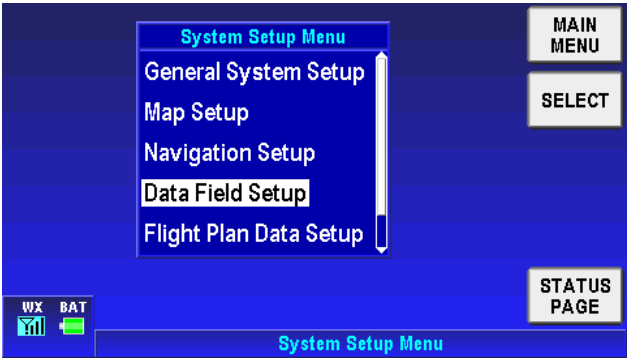


Figure 3-95: System Setup - System Setup Menu Page

The System Setup Menu allows the user to set parameters for items that show in the menu. Tap and highlight an item in the menu list and tap the **SELECT** soft key to enter the corresponding item's setup page.

System Setup Menu

The **System Setup Menu** has the following setup categories:

- **General System Setup**
- **Map Setup**
- **Navigation Setup**
- **Data Field Setup**
- **Flight Plan Data Setup**
- **Demo Mode Setup (If Demo mode is enabled)**
- **Device Setup**

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General System Setup

The General System Setup page is shown in Figure 3-96. Tap the desired item in the left list column and the associated value field is highlighted in the right column.

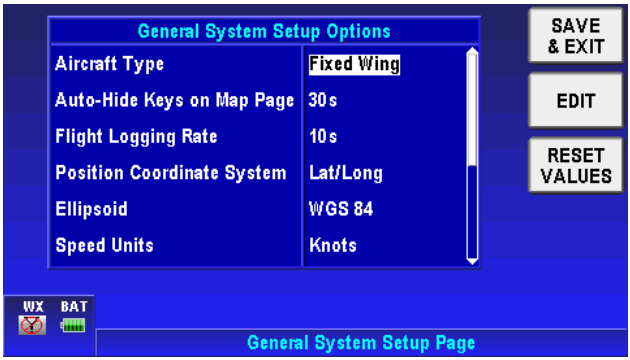


Figure 3-96: System Setup – General System Setup Options

Double tap the highlighted value item or tap on the **EDIT** soft key to display a pop up window to show the possible values that can be set. Double tap the highlighted value or highlight the value and tap on the **SELECT** soft key to change the item's values.



Figure 3-97: System Setup – Setting values

Tap the **SAVE & EXIT** soft key to save any changes. Tap the **RESET VALUES** soft key to restore most of the values in the General System Setup Options tables to their factory initial settings. The values that not reset are: Aircraft Type and Min Runway length.

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The following are the general system setup options and their possible values.

- **Aircraft Type**: Select the appropriate host aircraft type: Fixed Wing or Rotary Wing. This determines the aircraft symbol that is used in VFR Moving Map mode.
- **Auto-Hide Keys on Map Page**: When this option is turned ON and a value in seconds is set, all the soft keys on the VFR Moving Map page are automatically removed after the set time delay. Touching on the screen makes the soft keys visible again. If the option is set to OFF the soft keys are always visible.
- **Flight Logging Rate**: Sets the interval in seconds that the system logs position data and loads it into a 2000-point cyclic memory. The interval can be set between 1 and 99 seconds.
- **Position Coordinate System**: Sets the coordinate system to be used for the display and entry of position information. The available options are: LAT/LONG (Latitude and longitude); OS (GB) Ordnance Survey Great Britain; OS (Ireland) Ordnance Survey Ireland; UTM Universal Transverse Mercator; MGRS Military Grid Reference System.
- **Ellipsoid**: Sets the datum to be used for the display and entry of position information. The available options are: WGS84 the WGS84 datum; OS (GB) Ordnance Survey Great Britain; OS (Ireland) Ordnance Survey Ireland; ED50 (Euro Mean) the ED50 datum; NAD27 (CONUS) the NAD27 (CONUS) datum.
- **Speed Units**: Sets speed units to KNOTS (nautical miles per hour), MPH (statute miles per hour) or KMH (Kilometers per hour).
- **Distance Units**: Sets distance units to Nautical Miles, Statute Miles or Kilometers.
- **Altitude Units**: Sets altitude units to Feet or Meters. When feet are selected, all altitudes are reported in feet. When meters are selected, all altitudes are reported in meters.
- **Runway Length Units**: Sets runway length units to Feet or Meters. When feet are selected, runway lengths are reported

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in feet. When meters are selected, runway lengths are reported in meters.

- **Req Runway Surface**: The options are ANY and HARD ONLY. The Required Runway Surface type is also used when using the DIRECT TO soft key to search for the nearest airports in VFR Moving Map mode. When runway surface is set to ANY, airports with either hard or soft runways are displayed. When surface is set to HARD ONLY, only airports with hard surface runways are displayed and soft-runway airports are ignored.
- **MIN R/W LENGTH:** This field contains the minimum length of the main runway at those airports that are included when the ten nearest airports are shown. Select the length field and use set the minimum length value. The available values are specified in steps of 100 feet from 0 to 16,000 feet or in steps of 50 meters from 0 to 4900 meters when the runway length units are set to meters. By setting a minimum length, airports with shorter runway lengths are not included in the search for the closest airport. To disable this filter set the minimum runway length to 00000 feet.

Map Setup

The initial Map Systems Setup Options page allows different mapping options to be configured. Refer to Figure 3-98.

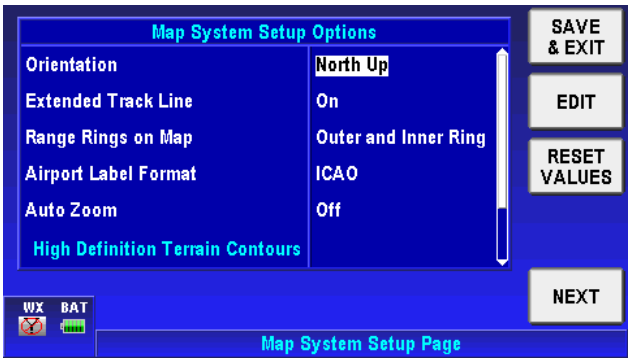


Figure 3-98: System Setup – Map System Setup Options

Tap the **NEXT** soft key to move to the next screen or the **SAVE & EXIT** soft key to save any changes and go back to the previous

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menu. Tap the **RESET VALUES** soft key to set all options to their factory initial settings except Minimum Elevation when it is currently set to a valid value.

- **Orientation:** Sets the Map Mode presentation to either a TRACK UP or NORTH UP orientation.
- **Extended Track Line:** Turns the extended track line ON or OFF. The extended track line is drawn ahead of the aircrafts present position in the direction of the present track.
- **Range Rings On Map:** Controls the display of the range rings shown around the aircraft. OFF removes the rings. OUTER RING shows only the outer ring. OUTER AND INNER RING shows both rings.
- **Airport Label Format:** Labels airports in Map Mode either with their ICAO CODE, their FULL NAME (given airport name) or CITY NAME (local city name).
- **Auto Zoom:** Turns the auto zoom function ON or OFF. When flying the last leg of a Flight Plan or when flying a Direct To, the system automatically zooms to a screen range that keeps the destination WPT within the display area. The system continues to zoom in to the lowest zoom level. When the lowest zoom has been reached and the aircraft begins to fly away from the destination WPT, then the system zooms out automatically to keep the WPT within the display area. When auto zoom is in operation AUTO (Automatic) is shown in the RNG (Range) display field. Pushing either the ZOOM IN or ZOOM OUT soft key cancels the auto zoom capability. Auto zoom is re-activated in this menu.
- **Minimum Elevation:** Controls the high definition terrain contours minimum level elevation. When altitude units are set to meters the options are: SEA LEVEL, 300M, 500M, 900M and 1200M. When altitude units are set to feet the options are: 1000ft, 2000ft, 3000ft and 4000ft.
- **Maximum Elevation:** Controls the high definition terrain contours maximum level elevation. The options are: 500M, 750M, 1000M, 1250M, 1500M, 1750M, 2000M, 2250M, 2500M, 3000M and MAXIMUM. When altitude units is set to

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feet the options are: 1500ft, 2000ft, 2500ft, 3000ft, 4000ft, 5000ft, 6000ft, 7000ft, 8000ft, 9000ft and Maximum.

There are four groups of features for each of the map layers. They are: Point Features, Line Features, Airspace and Overlay.

Tapping the **NEXT** soft key displays the First feature screen: Point Feature Setup, as shown in Figure 3-99**.**

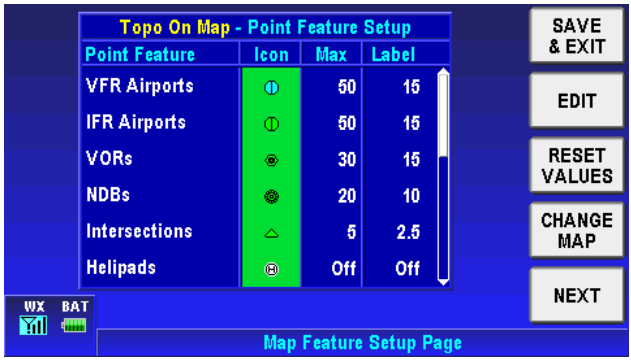


Figure 3-99: Map System Setup – Point Feature Setup

Tap the **CHANGE MAP** soft key to display the list of map layers. Select the desired map or chart and then tap the **SELECT** soft key to select that layer and return to the Map Features page. Tapping the **ALL MAPS** soft key applies the current settings to all maps. The next three features screens are each accessed in sequence by repeatedly tapping the **NEXT** soft key. The **NEXT** soft key on the last page loops back to the first page.

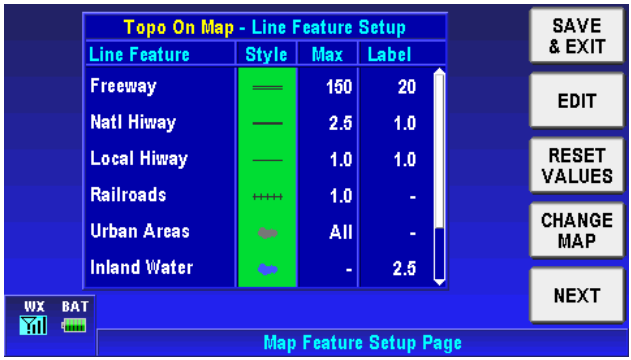


Figure 3-100: Map System Setup – Line Feature Setup

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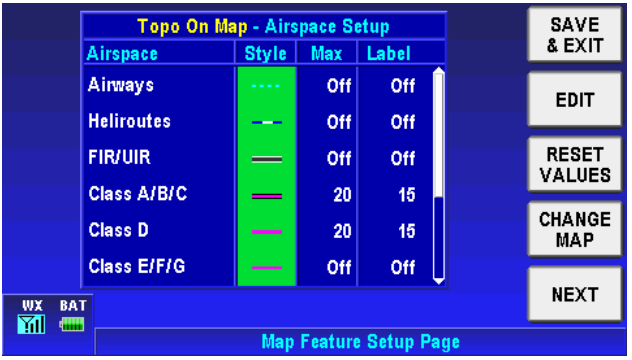


Figure 3-101: Map System Setup – Airspace Setup

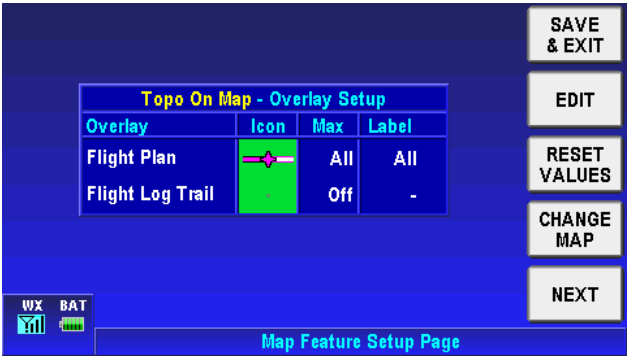


Figure 3-102: Map System Setup – Overlay Setup

To change values, double tap the highlighted value item or tap once on the item to highlight it and then tap on the **Edit** soft key and a pop up window shows the possible values that can be set. Highlight the desired value and double tap it or tap the **Select** soft key to finish the change.

Navigation Setup

The Navigation Setup page permits the navigation setup options to be configured, as shown in Figure 3-103.

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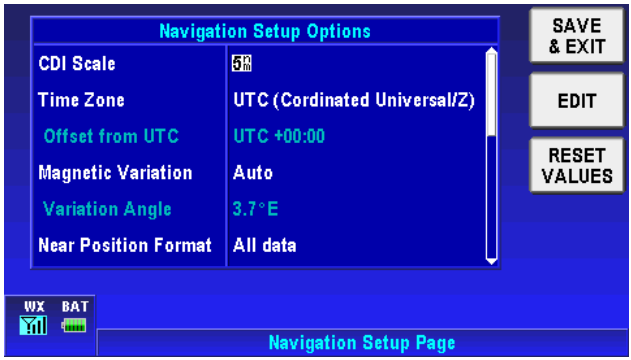


Figure 3-103: System Setup – Navigation Setup

Tap the **SAVE & EXIT** soft key to save any changes. Tap the **RESET VALUES** soft key to restore most of the values to their factory initial settings.

Double tap on an option or tap once on an option to highlight it and then tap on the **EDIT** soft key to display a pop up window to show the possible values that can be set. Double tap the highlighted value or highlight the value and tap on the **SELECT** soft key to change the item's values.

- **AutoNav:** Enable the AutoNav function to allow AV8OR to automatically switch between the external and internal GPS sources when there is more than one source. The AutoNav option only shows on the **Navigation Setup Page** when both the Navigation Source and Position in the **Device Setup Page** are set to **External**.
- **CDI Scale**: Sets the full scale deflection of any displayed Course Deviation Indicator (CDI) to: 0.6, 2 or 10 kilometers, 0.3, 1, or 5 nautical miles or 0.4, 1 or 5 statute miles. Values are based on the distance units, configured in the General System Setup Options table distance units field. The CDI is configured on the Data Field Setup Page in System Setup.
- **Time Zone**: The AV8OR has an on board clock that ensures the Estimated Time of Arrival (ETA) information presented is accurate. The time is stored in two summed parts as UTC (Universal Coordinated Time or Greenwich Mean Time) and as a

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Local Offset. The system Global Positioning System (GPS) acquires the correct UTC time at Power-up and maintains it accurately. The following Time Zone value can be set:

- LCL (Local Time) Offset from UTC – user configurable offset from UTC User defined
- UTC (Universal Time) Offset from UTC 0:00
- GST (Greenland Standard Time) Offset from UTC -3:00
- GDT (Greenland Daylight Saving Time) Offset from UTC -2:00
- ATS (Atlantic Standard Time) Offset from UTC -4:00
- ATD (Atlantic Daylight Saving Time) Offset from UTC -3:00
- EST (Eastern Standard Time) Offset from UTC -5:00
- EDT (Eastern Daylight Saving Time) Offset from UTC -4:00
- CST (Central Standard Time) Offset from UTC -6:00
- CDT (Central Daylight Saving Time) Offset from UTC -5:00
- MST (Mountain Standard Time) Offset from UTC -7:00
- MDT (Mountain Daylight Saving Time) Offset from UTC -6:00
- PST (Pacific Standard Time) Offset from UTC -8:00
- PDT (Pacific Daylight Saving Time) Offset from UTC -7:00
- AKS (Alaska Standard Time) Offset from UTC -9:00
- AKD (Alaska Daylight Saving Time) Offset from UTC -8:00
- HAS (Hawaii Standard Time) Offset from UTC -10:00

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  - HAD (Hawaii Daylight Saving Time) Offset from UTC -9:00
  - SST (Samoa Standard Time) Offset from UTC -11:00
  - SDT (Samoa Daylight Saving Time) Offset from UTC -10:00

- **Offset from UTC**: If the user sets Time Zone as Local, the Offset from UTC column can be configure. This method permits offsets of hours and 30-minute increments.
- **MAGNETIC VARIATION**: Settings are Auto or Manual. When set to auto the magnetic variation is derived from the GPS location. When set to manual the variation angle is entered in the line below by moving the cursor to the left, then down and then to the right to highlight the angle value field. The angle range is from 0 to 180 degrees.
- **NEAR POSITION FORMAT**: All Data, Airports / (Very high frequency Omni-directional Radio range (VOR)s, or VORs Only.
- **TURN ANTICIPATION**: ON or OFF. Turn Anticipation assists navigation for a fixed wing aircraft along a curved path segment to ensure a smooth transition between two adjacent legs in the flight plan using a standard rate turn.
- **SUA ALERTING**: Special Use Airspace (SUA) Alerting is turned ON or OFF.
- **SUA ALERT BUFFER**: The SUA altitude buffer is set from 500 to 16000 feet in 100-foot increments.
- **VSD Swatch Distance**:
  - For Nm: 0.1 to 1.0 Nm adjustable in 0.1 Nm increments, using the numeric keyboard (default = 0.5 Nm)
  - For sm: 0.1 to 1.0 sm adjustable in 0.1 sm increments, using the numeric keyboard (default = 0.6 sm)
  - For km: 0.2 to 2.0 km adjustable in 0.2 km increments, using the numeric keyboard (default = 1.0 km)

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- **VSD Above Aircraft**:
    - For Feet: 0500 to 2000 ft adjustable in 100 ft increments using the numeric keyboard (default = 1000 ft)
    - For Meters: 150 to 600 .m adjustable in 50 m increments using the numeric keyboard (default = 300 m)
- **VSD Below Aircraft**:
    - For Feet: 500 to 10000 ft adjustable in 100 ft increments using the numeric keyboard (default = 2000 ft)
    - For Meters: 150 to 3000 m adjustable in 50 m increments using the numeric keyboard (default = 600 m)
- **Direct-To-Mode**: Leg (default) and Target.
- **Default Fuel Flow**: 0.1 to 999.9 /hr, adjustable by 0.1 (8.0 default).
- **Default Ground Speed**: 0 to 999 kt, adjustable by 1 (135 kt default).

Tap **RESET VALUES** soft key to set all option to their factory initial settings.

Data Field Setup

This setup permits the user to arrange data windows along the left edge of the display in any order as shown in Figure 3-104. The left edge allows 4 visible data windows. 5 more data windows may be shown by panning the data windows up or down.

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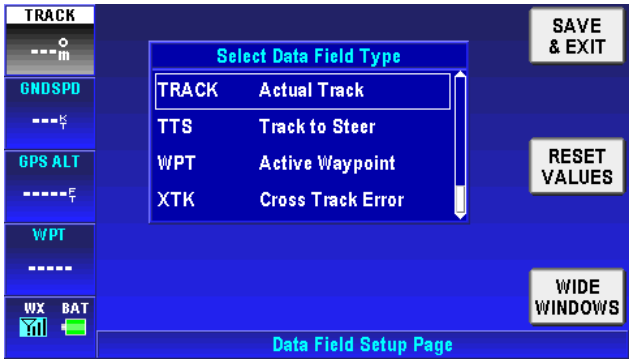


Figure 3-104: System Setup – Data Field Setup

How to configure the Data Field windows:

1. Tap and highlight the desired left data window to modify the data field type. Note that the corresponding window in the **Select Data Field Type** table is also identified. The title of the selected active data window is highlighted in white with black lettering, and the data window is highlighted in shades of grey.
2. Drag the scroll bar to up and down to select the desired new data field type. The abbreviation of the selected data type will be displayed in the highlighted left data field window along with its present value.
3. Tap and highlight the left data window, the new data window configuration is completed.
4. Repeat 1 through 3 for each data field window to be changed.
5. Totally 21 data field types can be selected, they are:
    - BRG: Bearing to WPT
    - CDI: Deviation Indicator
    - DIS: Distance to WPT
    - DEP TIME: Departure Time
    - DTK: Desired Track
    - ESA: En Route Safe Altitude
    - ETA WPT: Est. Time Of Arrival

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- ETE WPT: Est Time En Route
- FLT TIME: Flight Time
- GNDSPD: Ground Speed
- GPS ALT: GPS Altitude
- MSA: Minimum Safe Altitude
- NEAR POS: Near Position Display
- PPOS: Present Position
- STP WTCH: Stop Watch
- TIME: Time
- TKE: Track Angle Error
- TRACK: Actual Track
- TTS: Track to Steer
- WPT: Active WPT
- XTK: Cross Track Error

WIDE WINDOWS soft key controls the width of the data windows. Tap the **WIDE WINDOWS** soft key to expand the width of the data field windows to make long labels in the windows more readable. The **WIDE WINDOWS** soft key changes to **NARROW WINDOWS** when the windows are set to **WIDE WINDOWS** as shown in Figure 3-105.

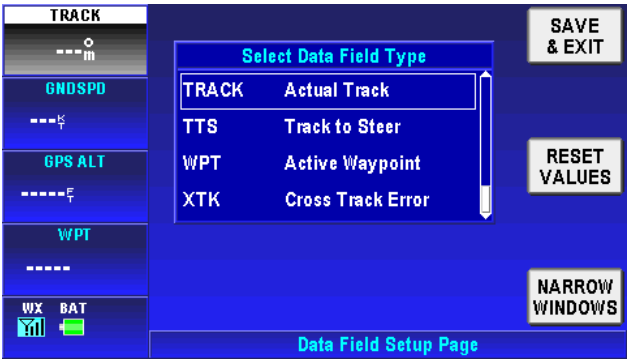


Figure 3-105: System Setup – Wide windows Data Field

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Tap the **RESET VALUES** soft key to set all option to their factory defaults.

Flight Plan Data Setup

Flight Plan Data Setup page allows the user to set up the headers for the flight plan in the flight planning section.

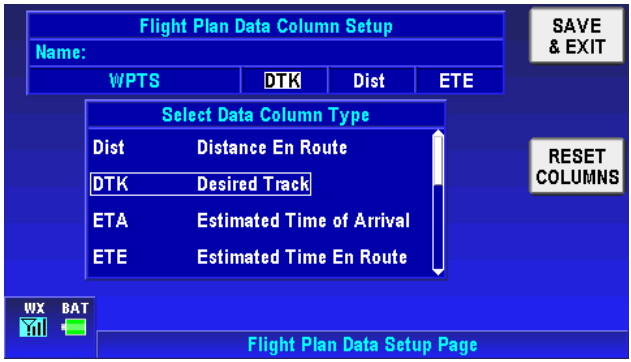


Figure 3-106: System Setup – Flight Plan Data Setup

The 'Flight Plan Data Column Setup' table displays the current column headings for the flight plan data display. The 'Select Data Column Type' table defines the column headings that are available.

Tap on the 'Flight Plan Data Column Setup' table to highlight the desired configurable column, the corresponding column type is displayed with a white border box in the 'Select Data Column Type' table. Move the highlighted box to the desired new column heading the heading in the above table changes as the lower table highlight is moved.

Tap the **RESET COLUMNS** soft key to set the column heading to their factory defaults.

Demo Mode Setup

The data in the Demo Mode Setup window Figure 3-107 is used to control the starting position, altitude, speed and initial track of the simulator.

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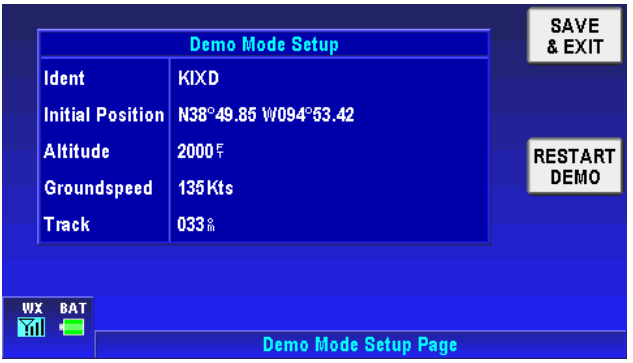


Figure 3-107: System Setup – Demo Mode Setup

Scroll up and down between the options, and set the values.

- **Ident:** Use the **Ident** field to assign a name to the Initial Position (manual entry). Highlight the **Ident** and enter the Ident input entry, the virtual keyboard is displayed. Input the Ident name characters. The system will search for similar Ident names in the database based on the character being input, as shown in Figure 3-108. As an example when the user inputs **LOS ANG**, the system will display similar Ident names such as **LOS ANGELES/VAN NUYS**. This function is convenient for the user by finishing the input of the full Ident name. The user can also define a new name for the Ident.



Figure 3-108: System Setup – Demo Mode Setup Ident Settings

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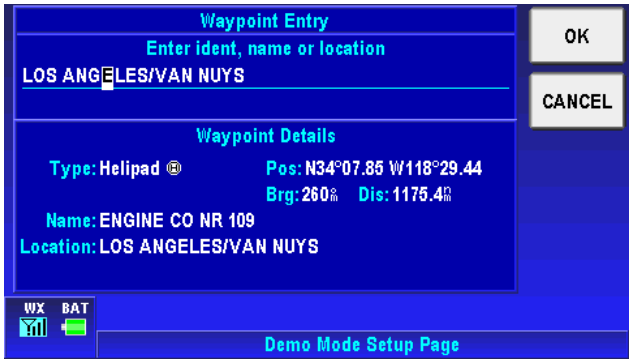


Figure 3-109: System Setup – Demo Mode Setup Ident Details

- **Initial Position:** Determines the latitude and longitude of where the simulator flight starts. The user can input the latitude and longitude.
- **Altitude:** The simulators altitude can be set to any altitude between 0 and 99900 feet in 100-foot increments or between 0 and 30500 meters in 100-meter increments.
- **Groundspeed:** The simulators speed can be set to any value between 0 and 999 in any of the selected speed units.
- **Track:** Set the initial track from the initial WPT. Track can be set to any value between 0 and 359 degrees.

When all the parameters have been entered tap the **RESTART DEMO** soft key to restart the simulator and return to the System Setup Menu.

Device Setup

This page lets the user to configure the external interfaces (GPS Receiver, Flight Plan Source, and WX Receiver) to the unit.

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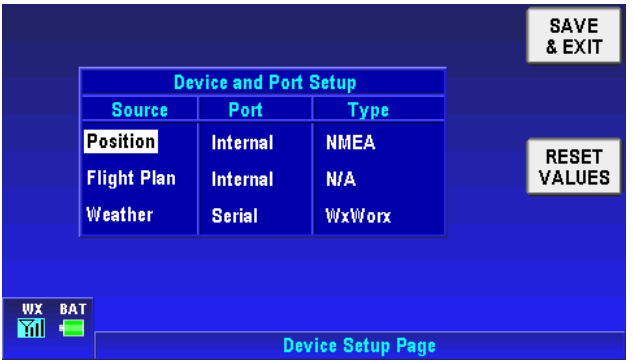


Figure 3-110: Device Setup Menu

The Position source port has the following Port options:

- Internal (Default value)
- Serial
- Bluetooth

The Position source can be configured as either NMEA (default value) or AR-NAV.

The Flight Plan Source has the following Port options:

- Internal (Default value)
- External

The Flight Plan Source receives data in the following Type formats:

- N/A (Default value)
- NMEA
- AR-NAV
- AR-NAV (Enhanced) allows arcs to be drawn in flight plan

The Weather Source has the following Port options:

- None
- Serial (Default value)
- Bluetooth

The Weather Source receives data in the following Type formats:

- N/A
- WxWorx (Default value)
- KDR-610

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Status Page

From the **System Setup Menu**, tap the **STATUS PAGE** soft key to access the System Status Menu page, as shown in Figure 3-111.

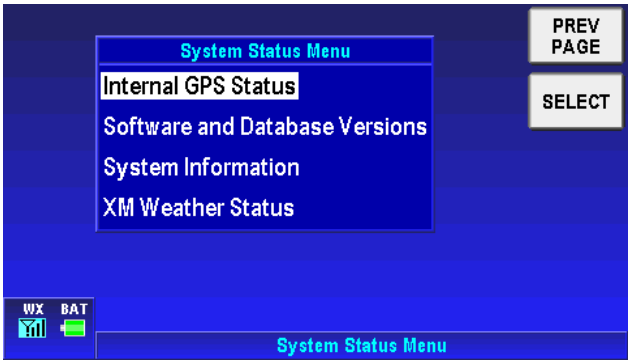


Figure 3-111: System Setup – Status Page

The System Status Menu page gives information about the position source, software/database versions and system information.

Internal GPS Status: The Internal GPS Status Page shows the GPS status in two tables, as shown in Figure 3-112. The first table shows the GPS receiver status. The second table shows the GPS satellite status for those that should be in view.

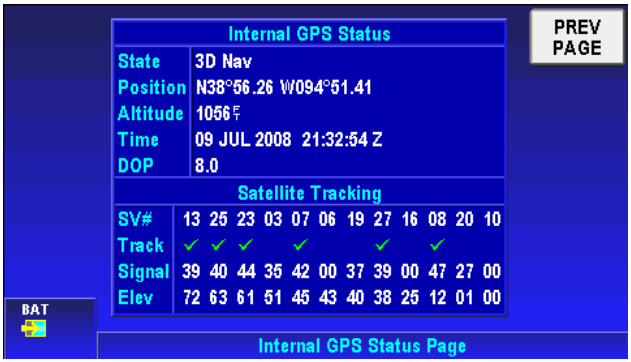


Figure 3-112: System Setup – Internal GPS Status

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External Position Source Status:

The External Position Source Status page displays the reported status of the external GPS receiver. (Only available if an external position source is configured) The Communication Status window is updated regularly.

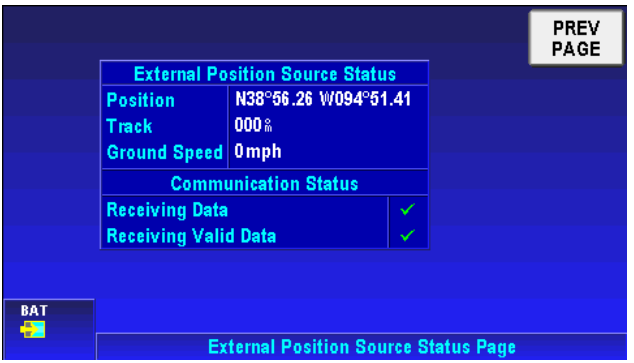


Figure 3-113: System Setup – External GPS Status

Software and Database Versions: The Software and Database Versions Page shows the software status in tables, as shown in Figure 3-114. The software table shows the application name, build status and operating system number. Databases table shows the Region, the Aeronautical part number, the Expiration date, the Cartography number and the Topography number.

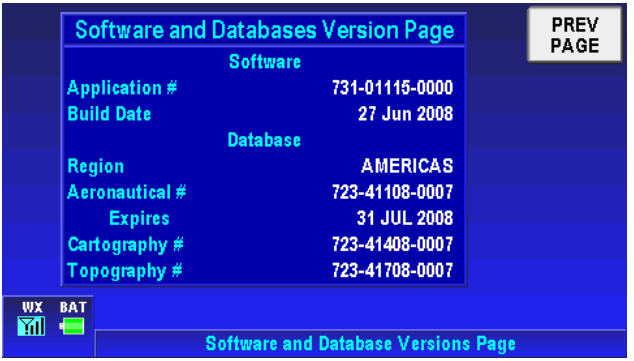


Figure 3-114: System Setup – Software and Database Version

- **System Information**: This page shows the System Information in a table and is defined as:

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Flight Log Start Time: The UTC time at the beginning of the flight.

Flight Log End Time: The UTC time at the end of the flight.

Run Time: The total time of the flight.

Cycles: The number of power cycles.

Event Codes: A list of Events.

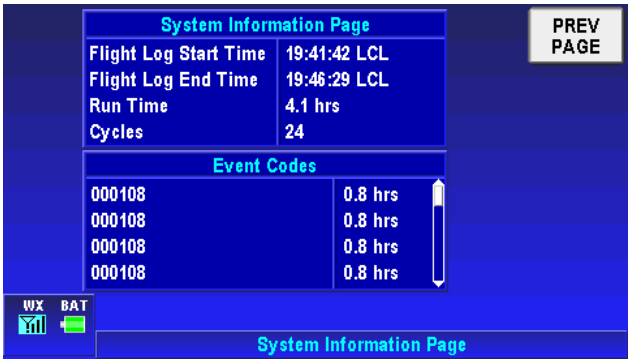


Figure 3-115: System Information Page

Shut Down

Tap the 

soft key on the Aviation Main Menu page to go to the Program Close page. Tap on the **YES** soft key to exit from the program or tap the **NO** soft key to stay in the program.

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Figure 3-116: Power Off

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4. AUTOMOTIVE MODE OPERATION

WARNINGS AND SAFETY INFORMATION

Go Drive is a navigation system that helps you find your way to your destination with a connected GPS receiver. **Go Drive** does not transmit your GPS position; others cannot track you.
It is important that you look at the display only when it is safe to do so. If you are the driver of the vehicle, we recommend that you operate **Go Drive** before you start your journey. Plan the route before your departure and stop if you need to change something in the route.
Go Drive has a Safety Mode: if you turn on Safety Mode, you cannot change anything in **Go Drive** while the vehicle is moving at a speed of 6 mph (10 km/h) or higher. Unless only passengers operate **Go Drive**, we strongly encourage you to turn on Safety Mode.
You must obey the traffic signs and follow the road geometry. If you deviate from the route that **Go Drive** recommended, **Go Drive** changes the instructions accordingly.
Never place mobile devices where it obstructs the driver's view, where it is in the deployment zone of an airbag or where it might cause injuries in an accident.

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GLOSSARY

2D/3D GPS reception
The GPS receiver uses satellite signals to calculate its (your) position and need at least four signals to give a three-dimensional position, including elevation. Because the satellites are moving and because objects can block the signals, your GPS device might not receive four signals. If three satellites are available, the receiver can calculate the horizontal GPS position but the accuracy is lower and the GPS device does not give you elevation data: only 2D reception is possible.

Active route
The Active route is the currently navigated route. You can save and load routes in **Go Drive**, but only one route can be active at any given time. It is always active until you delete it, reach your destination or you quit **Go Drive**. See also: Route.

City Center
The City Center is not the geometric center of the settlement but an arbitrary point the map creators have chosen. In towns and villages, it is usually the most important intersection; in larger cities, it is an important intersection.

GPS accuracy
Several factors have impact on the deviation between your real position and the one given by the GPS device. For example, signal delay in the ionosphere or reflecting objects near the GPS device have a different and varying impact on how accurately the GPS device can calculate your position.

Map
Go Drive works with digital maps which are not simply the computerized versions of traditional paper maps. Similarly to the paper road maps, the 2D mode of digital maps show you streets, roads, and elevation is also shown by colors. In 3D mode, you can see the altitude differences, for example valleys and mountains, elevated roads, and in selected cities 3D landmarks and 3D buildings are also displayed.
You can use digital maps interactively: you can zoom in and out (increase or decrease the scale), you can tilt them up and down, and turn them left and right. In GPS-supported navigation, digital maps facilitate route planning.

North-up map orientation
In North-up mode the map is rotated so its top always faces North.

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This is the orientation in 2D map view mode and in Overview mode. See also: Track-up map orientation.

Overview mode

You can instruct **Go Drive** to automatically switch to Overview mode if the next route event is in a distance. In Overview mode the map is shown in 2D but scaled down to a predefined zoom level. When you approach the next route event, the previous 2D or 3D map view returns automatically.

Route

A route is a series of destinations to be reached one after the other. A simple route contains one start point and only one destination. Multi-point routes contain one or more via points (intermediate destinations). The last route point is the final destination and the route is cut into different legs (from one destination to the next).

Scheme

Go Drive comes with different color schemes for the map for daytime or night use. Schemes are custom graphic settings for the map and they can have different colors for streets, blocks or surface waters in 2D and 3D modes, and they display shades or shadows in different ways in 3D mode.

One daytime scheme and one night scheme is always selected. **Go Drive** uses them when it switches from day to night and back.

Track-up map orientation

In Track-up mode the map is rotated so its top always points in the current driving direction. This is the default orientation in 3D map view mode. See also: North-up map orientation.

Road Safety Camera

A special POI type exists for speed cameras and red light cameras. Different data sources are available, and you can also mark the position of a Road Safety Camera on the map.

You can configure **Go Drive** to warn you when you approach one of these cameras.

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GETTING STARTED

From the Main Menu (refer to Figure 4-1), tap the 

soft key to start the **Go Drive** Automotive Navigation program.



Figure 4-1: AV8OR Main Menu

When **Go Drive** is started the first time, you need to do the following:

- Select the written language of the application. Later you can change it in the Settings Menu section.
- Select the language and speaker used for voice guidance messages. Later you can change it in Settings Menu section.
- Select whether to start the program in "Simple" mode or in "Advanced" mode. Later you can switch between the two operating modes in Settings Menu section.

After this, the Navigation menu appears and you can start using **Go Drive**. Figure 4-2 displays the Navigation menu in Simple mode.

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Figure 4-2: Simple Mode

Figure 4-3 displays the Navigation menu in Advanced mode:



Figure 4-3: Advanced Mode

The typical way of using **Go Drive** is to select a destination, and start navigating. You can select your destination in the following ways (not all of them are available in Simple mode):

- Use the selected location on the map.
- Enter a full address or a part of an address, for example a street name without a house number or the names of two intersecting

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streets .

- Enter an address with postal code. This way you do not need to select the name of the settlement and the search for street names might be faster as well.
- Use a coordinate.
- Use a saved location:
  - o A Favorite
  - o A POI
  - o The History of previously set destinations and waypoints.

Simple and Advanced modes

The two operating modes of **Go Drive** mainly differ in the menu structure and the number of available features. The controls and screen layouts are the same.

- **Simple mode**: you have easy access to the most important navigation functions and the basic settings only. The rest of the settings are set to values that are optimal for typical use.

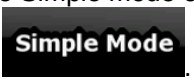
- **Advanced mode**: you have access to the full functionality of **Go Drive**.

To switch from Simple mode to Advance mode: on the startup screen (Navigation Menu), tap 

, 

.

To switch from Advanced mode Simple mode on the startup screen (Navigation Menu), tap 

, 

.

The features and settings available in each mode are as follows:

Type of action	Available in Simple mode	Available in Advanced mode
Navigating to a selected map point	Yes	Yes
Navigating to a street address	Yes	Yes

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Type of action	Available in Simple mode	Available in Advanced mode
Navigating to an incomplete address	Yes	Yes
Navigating to an intersection	Yes	Yes
Navigating to recent destinations (History)	Yes	Yes
Navigating to Favorites	Yes	Yes
Navigating to a POI	Yes	Yes
Navigating to coordinates	No	Yes
Creating a multi-point route	No	Yes
Saving a map point as a Favorite destination	Yes	Yes
Saving a map point as a POI	No	Yes
Saving a map point as a location of a Road Safety Camera	No	Yes
Mark a map point with a Pin	No	Yes
Saving the active route	No	Yes
Saving Track Logs	No	Yes
Map Screen settings	No	Yes
Menu settings	Only background picture	Yes
Sound settings	Only Master	Yes

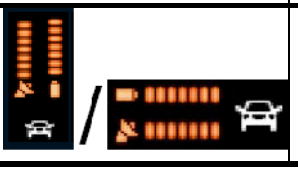
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Type of action	Available in Simple mode	Available in Advanced mode
	volume	
Route Planning options	Yes	Yes
Regional settings	Only language selection	Yes
Warnings	No	Yes

Soft Keys and Controls on the screen

You only need to confirm selections or changes in **Go Drive** if the application needs to restart, it needs to perform a major reconfiguration, or you are about to lose some of your data or settings. Otherwise, 

saves and applies the new settings immediately.

Type	Example	Description	How to use it
Soft Key		Tap it to initiate a function, to open a new screen, or to set a parameter.	Tap it once.
Icon		Shows status information.	Some icons also function as a soft Key. Tap them once.

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Type	Example	Description	How to use it
List		When you need to select from several options, they appear in a list.	Turn the page with the  and  soft Keys and tap the value that you want.
Slider		When a feature has several different unnamed values, **Go Drive** shows an indicator on a gauge that displays and sets a value from a range.	• Drag the handle to move the slider to its new position. • Tap the slider where you want the handle to appear; the thumb jumps there.
Switch		When there are only two choices, a checkmark shows whether the feature is enabled.	Tap it to turn the switch on or off.

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Type	Example	Description	How to use it
Virtual keyboard		Alphabetic and alphanumeric keyboards to enter text and numbers.	Each key is a touch screen soft Key.

Using keyboards

You only need to enter letters or numbers in **Go Drive** when you cannot avoid it. You can type with your fingertips on the full-screen keyboards and you can switch between various keyboard layouts, for example ABC, QWERTY, or numerical.

Task	Details
Switching to another keyboard layout, for example from a Latin QWERTY keyboard to a Greek keyboard	Tap / Keys and select from the list of available keyboard types.
Correcting your entry on the keyboard	Remove the unneeded character(s): tap. Tap and hold the soft Key to delete the entire input string.
Entering a space, for example between a first name and a family name or in multi-word street names	Tap Space.
Entering small or capital letters	Tap aA to cycle through entering lower case letters, capital initials or all capitals.
Entering symbols	Tap @/! to switch to a keyboard of symbol characters.

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Finalizing the keyboard entry	Tap  / .

Additional Controls

Tasks	Instructions
Tapping and holding the screen	You do not need this to access the basic navigation functions. Tap and keep pressing the following soft Keys to reach extra functions: • Tap and hold  on the Map screen: you can set the minimum and maximum zoom level of Smart Zoom. • Tap and hold any of the  soft Keys on the Map screen: you can set or reset the zoom value of the soft Key (2D map). • Tap and hold any of the  soft Keys on the Map screen: you can set or reset the tilt and zoom values of the soft Key (3D map). • Tap and hold  on list and menu screens: the Navigation menu appears.
Additional Tapping and holding the screen functions	Tap and hold any of the   soft Keys on the Map screen: you can rotate, tilt or scale the map continuously. • Tap and hold  on keyboard screens: you can delete several characters quickly.

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Tasks	Instructions
	• Tap and hold  or  in long lists: you can turn the page continuously. • Tap and hold the soft Keys in the Quick menu to open screens from the Manage menu or the Settings menu related with the function of the soft Key. • • In portrait screen orientation there are symbols (instead of labels) on the soft Keys at the bottom of the screen. Tap and hold any of these soft Keys, and its name pops up at the center of the screen.
Gestures (drag & drop)	You do not need gestures to access the basic navigation features. You need to drag and drop the screen only in cases like: • Moving the handle on a slider. • Moving the map: grab the map, and move it in the desired direction. • Shortcut to open the Map screen: slide your finger from the bottom right corner to the bottom left corner on any screen. Shortcut to open the Navigation menu: slide your finger from the top left corner to the bottom left corner on any screen.

Using the Map

The map screen is the most frequently used screen of **Go Drive**. It can be accessed from the Navigation menu by tapping 

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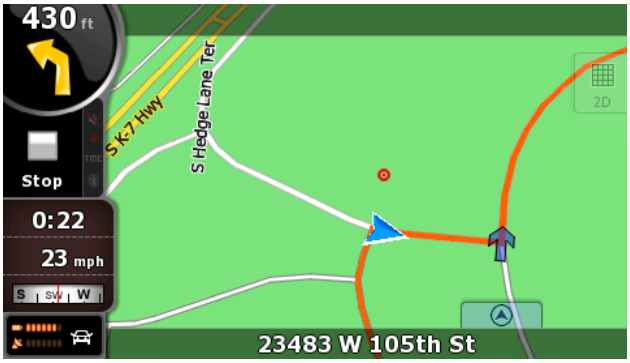


Figure 4-4: Map Screen

For further information about the map screen, refer to the Map Screen section.

CHECKING THE DETAILS OF A MAP LOCATION

- If you are interested in the details of your current position during navigation:
  1. Check the bottom line of the map. It shows the current street and house number information.
  2. For further details, tap Position to open the Position menu.
  3. Tap / Info The address, the coordinate and the list of nearby POIs will be displayed.

- You can check the details of any other location by selecting it on the map:
  1. Tap the map anywhere to open the map control soft Keys.
  2. Tap the desired location on the map. The Cursor ( )
  3. For Further details, tap Cursor to open the Cursor menu.
  4. Tap / Info The address, the coordinate and the list of nearby POIs will be displayed.

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- It is even easier if you select the desired point in the Find menu. Then the Cursor menu opens automatically. You only need to tap the 

soft Key.

MANIPULATING THE MAP

Position markers on the map:

Current GPS position: 

Selected location (Cursor): 

The following controls help you modify the map view to best suit your actual needs. Most of these controls appear only if you tap the map once, and disappear after a few seconds of inactivity.

Action	Soft Key(s)	Description
Moving the map with drag&drop	No soft Keys	You can move the map into any direction: tap and hold the map, and move your finger to the direction in which you want to move the map. If GPS position is available and you have moved the map, the  soft Key appears. Tap this soft Key to return to the GPS position.

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Action	Soft Key(s)	Description
Opening/closing map control soft Keys		Tap this soft Key to show or hide the following map control soft Keys: • Zoom in/out • Rotate left/right (3D map only) • Tilt up/down (3D map only) • Zoom preset soft Keys (2D map only) • Tilt and zoom preset soft Keys (3D map only) • Return to GPS position soft Key Smart Zoom soft Key
Zooming in and out		Changes how much of the map is displayed on the screen. **Go Drive** uses high-quality vector maps that let you see the map at various zoom levels, always with optimized content. It always displays street names and other text with the same font size, never upside-down, and you only see the streets and objects that you need. Map scaling has different limits in 2D and in 3D map view modes.
Tilting up and down		Changes the vertical view angle of the map in 3D mode.
Rotating left and right		Changes the horizontal view angle of the map in 3D mode. When GPS position is available, **Go Drive** always rotates the map so its top faces your direction of travel (Track-Up orientation). You can turn away from Track-Up with these soft Keys. If GPS position is available and you have rotated the map, the

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Action	Soft Key(s)	Description
		 soft Key appears. Tap this soft Key to re-enable the automatic map rotation.
Viewing modes	 	Gives you the following map perspectives in **Go Drive**: • classic top-down view (2D) • • perspective view (3D) The value always shows the mode the soft Key switches to: If you are in 2D mode, you can see  the soft Key and you need to tap it to switch to 3D mode.

STATUS INFORMATION AND HIDDEN CONTROLS ON THE MAP

The following information appears in the rounded field in the top left corner, the Turn Preview field. When tapping this area, the result depends on the information currently shown.

Icon	Information	Details	Action
	There is no active route in Simple mode	If there is no route to be navigated in Simple mode, this icon appears in the Turn Preview field.	Tap this area to open Find Address.
	There is no active route in Advanced mode	If there is no route to be navigated in Advanced mode, this icon appears in the Turn Preview field	Tap this area to open Find.
 ,	There is no valid GPS position.	If an active route exists, and there is no valid GPS position,	Tap this area to open the Route Information

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Icon	Information	Details	Action
		the view of the sky above you is shown with colored dots for each satellite. Some dots need to turn green to be able to navigate.	screen.
	If the icon is a static picture, route calculation is needed	GPS position and an active route are available, but automatic off-route recalculation is switched off, and you deviated from the route.	Tap this area to make **Go Drive** recalculate the recommended route.
	If the icon is animated, route, calculation is in progress	**Go Drive** is calculating or recalculating the route	Nothing happens if you tap this area of the screen
 ,  ,	Next route event (next maneuver)	GPS position and an active route are available, and you navigate the recommended route. This area gives you information about the type and distance of the next route event.	Tap this area to open the Route Information screen.

The following area appears next to the above described rounded area. When tapping this area, the result depends on the information currently shown.

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Icon	Information	Details	Action
	There is no valid GPS position	If there is no valid GPS position, this symbol appears here.	Tap this area to open the GPS Data screen to check the signal status or the connection settings.
	Traffic restriction	When GPS position is available, but there is no route to be navigated, the traffic restriction of the upcoming intersection is shown here if there is any	Nothing happens if you tap this area of the screen.
 , 	Second route event (maneuver after the next maneuver)	When GPS position and an active route are both available, this field shows the route event that follows the next route event shown in the above described area.	Tap this area to open the Itinerary screen with the turn by turn guidance instructions.
	Approaching a Road Safety Camera	This icon appears when you are approaching a Road Safety Camera, and the warning for cameras is enabled in	Tap this area to suppress the audible camera warning.

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Icon	Information	Details	Action
		Settings.	
	Stops the running simulation	This icon appears during Route Fly Over, Route Simulation, and Track Log playback.	Tap this area to stop the simulation.
	Route recalculation progress	During route recalculation, this field shows the recalculation progress between 0% and 100%.	Nothing happens if you tap this area of the screen.

The following symbols appear in the Indicator strip:

Icon	Description
	The sound output of **Go Drive** is muted.
	The sound output of **Go Drive** is enabled.
	**Go Drive** records a Track log when GPS position is available.
	Track log recording is disabled.
	No TMC receiver is connected or TMC is turned off.
	TMC receiver is connected and a radio station with TMC broadcast is received.
	There are new, unread TMC events.

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Icon	Description
	A part of the route is bypassed based on TMC events.
	A part of the route is mentioned in TMC events but could not be bypassed (for example, the destination is on a congested street).
	The Bluetooth radio is switched off.
	The Bluetooth radio is turned on, but no telephone is connected.
	There is an error in the Bluetooth connection.
	**Go Drive** is connected to a telephone as a hands free set via Bluetooth.
	A phone call is in progress over the Bluetooth connection.

The following information can be seen in the three data fields shown on the map screen. Tap this area to open the Trip Information screen where you can select which values to be shown in these three fields. When there is no active route, these fields show the following information: current speed, compass and the current time of day.

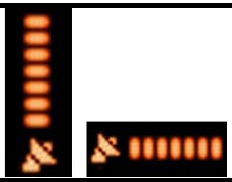
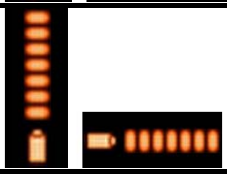
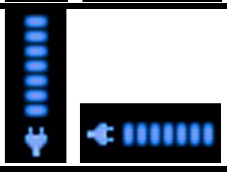
Icon	Type	More information
	Compass	Shows the direction of your heading both when the map is automatically rotated (3D) and when the map is always facing North (2D).
	Speed information	There are speed values that can be shown: • Current speed • Speed limit on the current road

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Icon	Type	More information
	Time information	There are time values that can be shown: • Current GPS time • Time remaining to reach the destination • Time remaining to reach the next via point • Estimated arrival time at the destination • Estimated arrival time at the next via point
	Distance information	There are distance type values that can be shown: • Distance remaining to reach the destination • Distance remaining to reach the next via point • Current altitude

The next area is a combined status field. Tap this area to open the Quick menu (Refer to Figure 4-11: Quick Menu).

.

Icon	Status for	More information
	GPS position quality	The more lit bars, the better is the GPS position.
	Battery status	The device is running on battery power. The number of lit bars represent the remaining capacity.
	The battery is being charged	The device is running on external power. The battery is being charged.

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Icon	Status for	More information
	Vehicle type	The symbol displays the vehicle type used for route calculation.

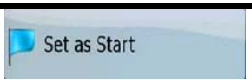
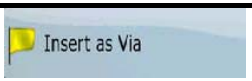
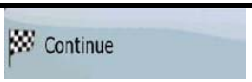
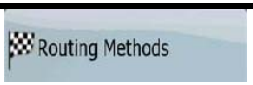
USING THE CURSOR (THE SELECTED MAP LOCATION)

First, place the Cursor at the desired map location with one of the following options:

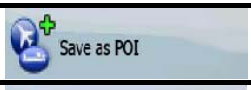
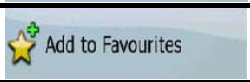
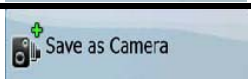
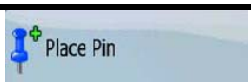
- Use the Find menu to select a location. The map returns with the selected point (the Cursor) in the middle, and the Cursor menu appears with the available options.
- Tap the screen and tap again to place the Cursor at the desired location. Now tap 

to open the Cursor menu.

You can perform the following actions:

Soft Key	Action
	In the active route, uses the Cursor as the start point by replacing the current GPS position (available in Advanced mode only)
	In the active route, uses the Cursor as the destination by replacing the previous destination
	In the active route, uses the Cursor as a via point (an intermediate destination) preceding the destination (available in Advanced mode only)
	In the active route, uses the Cursor as the destination while keeping the previous destination as a via point (available in Advanced mode only)
	Shows the different routes calculated by the available routing methods. Choose the one that suits your needs the best.(available in Advanced mode only)

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Soft Key	Action
	Saves the Cursor as a POI(available in Advanced mode only)
	Saves the Cursor as a Favorite location
	Saves the Cursor as a Road Safety Camera location (available in Advanced mode only)
	Marks the map with a Pin at the Cursor (available in Advanced mode only)
	Opens a screen with the name, address and coordinate information of the Cursor, and the list of POIs near it

Advanced Functions

SMART ZOOM

Smart Zoom is a lot more than just a usual automatic zoom:
While following a route calculated by Go Drive:
When approaching a turn, it will zoom in and raise the view angle to let you easily recognize your maneuver at the next junction. If the next turn is at a distance, it will zoom out and lower the view angle to be flat so you can see the road in front of you.
While driving without an active route in Go Drive:
Smart Zoom will zoom in if you drive slowly and zoom out to the limit set here when you drive at high speed.

Enabling Smart Zoom
Tap the map to let the map control soft Keys appear, and then tap  to enable Smart Zoom.

Fine-tuning Smart Zoom
Tap the map to let the map control soft Keys appear, and then tap and hold  to open the Smart Zoom Settings window. Modify the

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zoom limits of Smart Zoom if necessary.

POSITION MARKERS

Current GPS Position and Lock-on-Road

When your GPS position is available, **Go Drive** marks your current position with the  icon on the map. The exact location of the position marker depends on the vehicle type used for route calculation.
The vehicle type can be selected in Route settings or in the Quick Menu.

- If you choose pedestrian: The  icon is at your exact GPS position. The direction of the icon shows your actual heading.

- If you choose any of the vehicles: The  icon is aligned to the nearest road to suppress GPS position errors. The direction of the icon is one of the directions of the route.

To use the current GPS position, tap 

. The Position menu appears and you can save the GPS position as one of the following:

- A Favorite
- A Road Safety Camera
- A POI
- A map marker Pin

Returning to Normal Navigation

When GPS position is available, and you have moved the map (the  icon is moving or is not even visible), or you have rotated the map in 3D mode, the  soft Key appears. Tap it to move the map back to the GPS position and re-enable Track-up map orientation (automatic map rotation).

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Note Even if you move the map while you are driving, **Go Drive** continues navigating if there is an active route: it plays the voice instructions and displays the turn preview icons according to your current GPS position.

Selected Location (Cursor)

If you select a location in the Find menu, or you tap the map when the map control soft Keys are visible, the Cursor appears at the selected point on the map. **Go Drive** displays the Cursor with a radiating red dot () to make it visible at all zoom levels, even when it is in the background of a 3D map view.

When the Cursor is set, tap 

. The Cursor menu appears and you can use the Cursor as one of the following:

- The start point of a route
- A via point in a route
- The destination of a route

You can also search for POIs around the Cursor. Or you can save the location of the Cursor as:

- A Favorite
- A Road Safety Camera
- A POI
- A map marker Pin

Original Position in the Cursor Menu

When the Cursor menu is open, a special icon () shows the Cursor position the menu was opened with.
You can move and zoom the map, and you can set the Cursor to a different place. The usual cursor () appears, and the soft Keys of the Cursor menu initiate actions for this new location.

To return to the original Cursor position, tap  . The map jumps back to the position with which the Cursor menu was opened, and the  icon appears again.

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DAYTIME AND NIGHT COLOR SCHEMES

Go Drive uses different color schemes during the day and during the night.
Daytime colors are similar to paper road maps.
The night color schemes use dark colors for large objects to keep the average brightness of the screen low.

Go Drive offers different daytime and night color schemes. It can also switch automatically between the daytime and the night scheme based on the current time and GPS position a few minutes before sunrise, when the sky has already turned bright, and a few minutes after sunset, before it becomes dark.

COLOR SCHEME IN TUNNELS

When entering a tunnel, the colors of the map change. All buildings disappear, the large objects (such as surface waters or forests) and the empty areas between roads become black.
However, roads and streets keep their original colors from the daytime or night color scheme currently used.
After leaving the tunnel, the original colors return.

ROUTE CALCULATION AND RECALCULATION

Go Drive calculates the route based on your preferences:
Route calculation method:

- Fast
- Short
- Economical
- Easy

Vehicle types:

- Car
- Taxi
- Bus
- Emergency vehicles
- Bicycle
- Pedestrian

Road types

- Unpaved Roads

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- Permit Needed
- Motorways
- Toll Roads
- Charge Roads
- Ferries
- Cross-border Planning
- Carpool Lanes (appears only when used in the USA)

Go Drive automatically recalculates the route if you deviate from the proposed itinerary. For further information about Route Planning options, refer to the Settings Menu section.

ITINERARY

The Itinerary is the list of the route events, that is, the driving instructions.



Figure 4-5: Itinerary

When you are on the Map screen, you can display the Itinerary in one of the following ways:

- Tap the area between the Turn preview and the Travel data fields where the symbol of the second next maneuver is displayed (for example: 

).

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- In Advanced mode, tap the following soft Keys: 

, 

, 

You have the following options on the Itinerary screen:

Soft Key	Description
Any of the list items	Opens the map with the selected maneuver in the middle.
	Changes the detail level of the Itinerary. The levels are as follows: • Detailed Instructions: all intersections are listed • Itinerary: only significant intersections (the ones announced in voice guidance) are listed • Road list: the list of the roads used while navigating the route
	Turns the page for additional list items.

When the map is open with a maneuver in the middle:

Soft Key	Description
	Zooms in the map.
	Zooms out the map.
	Moves the map to show the previous or next maneuver.

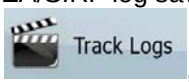
Soft Key	Description
	Opens a screen where you can avoid a part of the route starting from the selected maneuver.

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TRACK LOGS

Go Drive can log the track that you drive.
A Track Log is a recording of how your GPS position changed and it is independent of the route that **Go Drive** calculated.
Track Logs can be recorded, renamed, replayed, shown on the map, exported to a memory card in GPX format, and deleted. See page 69.
Independently of the normal track log, you can instruct **Go Drive** to record the native GPS data received from the GPS device. These logs are saved as separate text files on the memory card, and they cannot be shown or replayed in **Go Drive**.
To turn on NMEA/SIRF log saving, tap the following soft Keys:


, 

, 

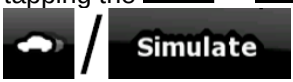
, 

.

ROUTE DEMONSTRATION

A simulation drives you through the route, following the driving instructions. You can choose from a simulation at high speed or at normal driving speed.
You can use it, for example, to see which bridge **Go Drive** planned for the route; if you do not want to take that bridge, you can avoid it.

Route demonstrations can be started from the Route menu by tapping the 

(high speed simulation) or the 

(normal speed simulation) soft Key.

POI (POINTS OF INTEREST)

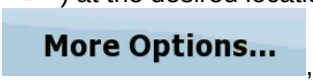
A point of interest (POI) is a location that someone might find useful or interesting. **Go Drive** is delivered with thousands of POIs and you can also create your own POIs in the application.
POI locations are marked on the map with special icons. POI icons are quite large so you can easily recognize the symbol. The icons are also semi-transparent: they do not cover the streets and

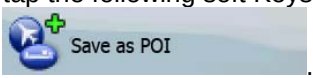
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intersections behind them.
POIs are grouped into several levels of categories and subcategories. The icon of a POI that comes with the map shows the symbol of the POI category. If you save your own POI, you can select an icon for it independently of the POI category you have put it in.

Saving POI

To save a POI, place the Cursor () at the desired location, then tap the following soft Keys: 

, 

, 

.

Managing POI

You can select which POI groups to show and which ones to hide on the map, and from which zoom levels POI icons are visible. At the same place you can manage the saved POIs. A saved POI can be renamed, moved to a different POI group, its icon can be changed, or a phone number and additional information can be added to it.

Tap the following soft Keys: 

, 

, 

ROAD SAFETY CAMERAS

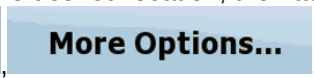
The location of a Road Safety Camera is a special POI. They cannot be searched like other POIs, and there is a special proximity warning only for cameras.

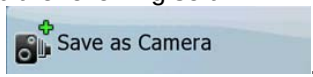
Can Road Safety Camera locations be uploaded in a text file?	Yes
Can you save the Cursor as the location of a Road Safety Camera?	Yes

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Saving Road Safety Cameras

To save the location of a Road Safety Camera, place the Cursor () at the desired location, then tap the following soft Keys: 

, 

, 

.

Camera Warning

When you approach a Road Safety Camera with the warning enabled, the following happens:

- Visible Warning: The type of the camera is displayed in the secondary Turn Preview field (for example). 

- Audible Warning: If there is no speed limit given for the camera, or your speed is under the given speed limit, single beeps warn you about the camera.
- If you exceed the speed limit of the camera, the following also happens:
  - Visible Warning: A symbol with the speed limit appears in the corner of the map (for example: 

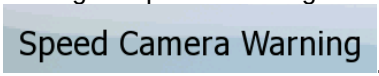
),
  - Audible Warning: A special alert sound is played.

Camera Types

The warning for Road Safety Cameras can be turned on in Warning Settings. Tap the following soft keys 

, 

, 

, 

.

When you approach a Road Safety Camera with the warning enabled, the following happens:
Visible Warning: The type of the camera is displayed in the secondary Turn Preview field (for example 

).

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- Audible Warning: If there is no speed limit given for the camera, or your speed is under the given speed limit, single beeps warn you about the camera.
- If you exceed the speed limit of the camera, the following also happens:
  - Visible Warning: A symbol with the speed limit appears in the corner of the map (for example: 

).
  - Audible Warning: A special alert sound is played.

There are different types of Road Safety Cameras.

Symbol	Type	Description
	Fixed	Some speed cameras stand by the roadside, looking in one direction, measuring one or both directions of the traffic. They measure your current speed. For these speed cameras you can specify the controlled traffic direction and the speed limit. **Go Drive** warns you when you approach these speed cameras in the measured direction. If your speed exceeds the speed limit near the speed camera, **Go Drive** plays a special warning sound.
	Mobile	Some speed cameras are operated from vehicles. They do not always work and they are not set to check a preset speed limit. The warning is similar to fixed speed cameras, but as there is no speed limit given, only the proximity is announced.
	Built-in	Some speed cameras are built into traffic lights. They work like fixed speed cameras, but they are difficult to spot. The warning for proximity and speeding is the same as for the fixed speed cameras.
	Section control	These speed cameras work in pairs, and do not measure your current speed but your average speed between the two speed cameras. Both identify your car and record the exact time you pass them. They use the difference between the two points in time to calculate your average speed. **Go Drive**

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Symbol	Type	Description
		warns you when you approach one of these speed cameras, but as you pass by, the warning stays on, and your average speed is measured until you reach another speed camera of this type. If your average speed exceeds the speed limit between the two speed cameras, you receive the same special warning sound as with the other speed camera types. In the rare case **Go Drive** cannot register the moment you pass the second speed camera (for example, it is placed at the exit of a tunnel where GPS position is not yet available) the warning continues. Just tap the speed camera symbol displayed on the screen to stop the warning.
	Red light	These cameras check if you obey traffic lights. The warning is similar to mobile speed cameras: as there is no speed limit given, only the proximity is announced.

Camera Directions

A speed camera can measure the speed of one direction of the traffic, both directions, or even several directions in an intersection, when they are mounted on a rotating base. The same directions apply to red light cameras. **Go Drive** warns you only if you drive in a measured or possibly measured direction. The measured direction of the camera appears with the following symbols:

Symbol	Description
	The camera checks the speed of the direction into which you are driving.
	The camera checks the speed of the opposite driving direction.
	The camera checks the speed in both directions on the road.

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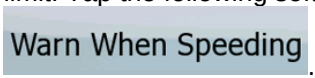
	The camera can check the speed in any direction.

SPEED LIMIT WARNING

Maps sometimes contain information about the speed limits of the road segments. This information may not be available for your region (ask your local dealer) or may not be fully correct for all roads on the map.
You can configure **Go Drive** to warn you if you exceed the current limit. Tap the following soft Keys: 

, 

, 

, 

.

When you exceed the speed limit, the following happens:

- Visible Warning: A symbol with the speed limit appears in the corner of the map (for example: 

).
- Audible Warning: A voice message is played using the selected voice guidance profile.

ROUTE NAVIGATION

You can set up your route in **Go Drive** in several ways:
if you need a simple route (a route with only one destination, without any intermediate via points), you can select the destination and start navigating to it right away
you can plan a multi-point route (available in Advanced mode only)
you can also plan a route independently of your current GPS position or even without GPS reception (available in Advanced mode only)

Selecting the Destination of a Route

Go Drive offers you several ways of choosing your destination and via points (intermediate destinations):

- Use the selected location on the map.
- Enter a full address or a part of an address, for example a street name without a house number or the names of two intersecting

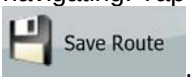
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streets.

- Enter an address with postal code. This way you do not need to select the name of the settlement and the search for street names might be faster as well.
- Use a coordinate.
- Use a saved location:
  - A Favorite
  - A POI
  - The History of previously set destinations and waypoints.

Tip! If you are going to use a route later, save it before you start navigating. Tap the following soft Keys: 

, 

, 

.

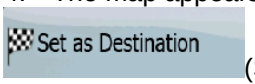
SELECTING THE CURSOR AS THE DESTINATION

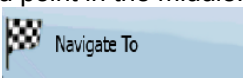
1. Locate your destination on the map: move and scale the map as needed.

2. Tap the location that you want to select as your destination. The Cursor () appears.

3. Tap 

to open the Cursor menu.

4. The map appears with the selected point in the middle. Tap 

(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Tip! If you know that you will use a destination later, when the Cursor menu appears, save it as a POI, or put it on the list of your Favorites first. The Cursor menu returns automatically with the same point. Now you can use it as a route point.

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ENTERING AN ADDRESS OR PART OF AN ADDRESS

If you know at least a part of the address, it is the quickest way to select the destination of the route.

- Using the same screen, you can find an address by entering:
- The exact address, including house number
- The center of a settlement
- An intersection
- The midpoint of a street
- Any of the above, starting the search with the postal code.

Entering an Address (Europe)

In some countries, states are not used in addressing. After selecting the country, the next step is to define the settlement. There are four lines on the screen:



Figure 4-6: Enter an Address (Europe)

The procedure is explained starting from the Navigation menu.

1. Tap the following soft Keys: 

(Simple mode),

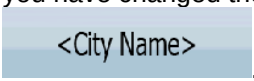
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or 

, 

(Advanced mode).

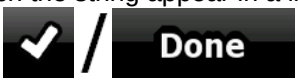
2. By default, **Go Drive** proposes the country and settlement where you are. If needed, tap the soft Key with the name of the ountry, and select a different one from the list.

3. If needed, change the settlement:
   - To select the settlement from the list of recently used ones, tap the  soft Key.
   - To enter a new settlement:
     1. Tap the soft Key with the name of the settlement, or if you have changed the country/state, tap 

.
     2. Start entering the settlement name on the keyboard.
     3. Get to the list of search results:
        - After entering a couple of characters, the names that match the string appear in a list.
        - Tap 

to open the list of results before it appears automatically.
     4. Pick the settlement from the list.

4. Enter the street name:
   1. Tap 

.
   2. Start entering the street name on the keyboard.
   3. Get to the list of results:
      - After entering a couple of characters, the names that match the string appear in a list.
      - Tap 

to open the list of results before it appears automatically.
   4. Pick the street from the list.

5. Enter the house number:

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1. Tap <House Number>.
2. Enter the house number on the keyboard.
3. Tap / Done to finish entering the address.

6. The map appears with the selected point in the middle. Tap Navigate To Simple mode) or Set as Destination (Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Entering an Address (North America, Australia)

In some countries, the state is also used in addresses. If you are in one of these countries, or choose any of them from the list of countries, five lines appear on the screen:



Figure 4-7: Find an Address - USA

The procedure is explained starting from the Navigation menu.

1. Tap the following soft Keys: Find Address (Simple mode), or Find, Find Address (Advanced mode).

2. By default, **Go Drive** proposes the country, state and settlement where you are. If needed, tap the soft Key with the name of the

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country, and select a different one from new country, you also need to select the state, or tap <All states> to search for a settlement regardless of the state it is in.

3. If you have not changed the country, you still have the possibility to change the state. Tap the soft Key with the name of the state, and select from the list.

4. If needed, change the settlement:
   - To select the settlement from the list of recently used ones, tap the  soft Key.
   - To enter a new settlement:
     1. Tap the soft Key with the name of the settlement, or if you have changed the country/state, tap <City Name>.
     2. Start entering the settlement name on the keyboard.
     3. Get to the list of search results:
        - o After entering a couple of characters, the names that match the string appear in a list.
        - o Tap  to open the list of results before it appears automatically.
     4. Pick the settlement from the list

5. Enter the street name:
   a. Tap <Street Name>.
   b. Start entering the street name on the keyboard.
   c. Get to the list of results:
      - o After entering a couple of characters, the names that match the string appear in a list.
      - o Tap  to open the list of results before it appears automatically.
   4. Pick the street from the list.

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6. Enter the house number:
    1. Tap <House Number>.
    2. Enter the house number on the keyboard.
    3. Tap / Done to finish entering the address.

7. The map appears with the selected point in the middle. Tap Navigate To (Simple mode) or Set as Destination (Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Entering an Address if house numbering is restarted

There are long roads where the house numbering is restarted at some point. This way the same house number can appear twice or even more times on the same road. If this is the case, after giving the house number, you need to select the appropriate address by the district/suburb information.
The procedure is explained starting from the Navigation menu.

1. Tap the following soft Keys: Find Address (Simple mode), or Find, Find Address, (Advanced mode).
2. By default, **Go Drive** proposes the country/state and settlement where you are. If needed, tap the soft Key with the name of the country/state, and select a different one from the list.

3. If needed, change the settlement:
    - To select the settlement from the list of recently used ones, tap the soft Key.
    - To enter a new settlement:
        1. Tap the soft Key with the name of the settlement, or if you have changed the country/state, tap

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.

2. Start entering the settlement name on the keyboard.
3. Get to the list of search results:
   - o After entering a couple of characters, the names that match the string appear in a list.
   - o Tap 

to open the list of results before it appears automatically.
4. Pick the settlement from the list.

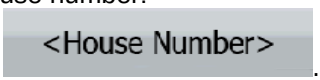
4. Enter the street name:

1. Tap 

.
2. Start entering the street name on the keyboard.
3. Get to the list of results:
   - o After entering a couple of characters, the names that match the string appear in a list.
   - o Tap 

   - o to open the list of results before it appears automatically.
4. Pick the street from the list.

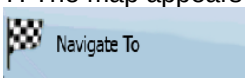
5. Enter the house number:

1. Tap 

.
2. Enter the house number on the keyboard.
3. Tap 

to finish entering the address.

6. A list appears with the matching addresses. Tap the desired one.

7. The map appears with the selected point in the middle. Tap 

(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

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Enter an Address without knowing the district/suburb

Long roads can run across several districts or suburbs. You may not know if a particular house number is in which of them. In this case, follow the instructions below:
The procedure is explained starting from the Navigation menu.

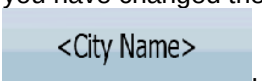
1. Tap the following soft Keys: 

(Simple mode), or 

, 

(Advanced mode).

2. By default, **Go Drive** proposes the country/state and settlement where you are. If needed, tap the soft Key with the name of the country/state, and select a different one from the list.

3. If needed, change the settlement:
   - To select the settlement from the list of recently used ones, tap the  soft Key.
   - To enter a new settlement:
     1. Tap the soft Key with the name of the settlement, or if you have changed the country/state, tap 

.
     2. Start entering the settlement name on the keyboard.
     3. Get to the list of search results:
        - After entering a couple of characters, the names that match the string appear in a list.
        - Tap 

to open the list of results before it appears automatically.
     4. Pick the settlement from the list.

4. Enter the street name:

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1. Tap 

.
2. Start entering the street name on the keyboard.
3. Get to the list of results:
   - After entering a couple of characters, the names that match the string appear in a list.
   - Tap 

to open the list of results before it appears automatically.
4. Instead of picking one of the streets, tap 

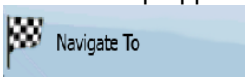
.

5. Enter the house number:
   1. Tap 

.
   2. Enter the house number on the keyboard.
   3. Tap 

to finish entering the address.

6. A list appears with the matching addresses. Tap the desired one.

7. The map appears with the selected point in the middle. Tap 

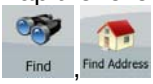
(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Selecting an Intersection as the Destination

The procedure is explained starting from the Navigation menu.

1. Tap the following soft Keys: 

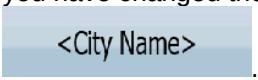
(Simple mode), or 

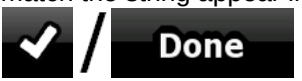
(Advanced mode).

2. By default, **Go Drive** proposes the country/state and settlement where you are. If needed, tap the soft Key with the name of the

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country/state, and select a different one from the list.

3. If needed, change the settlement:
   - To select the settlement from the list of recently used ones, tap the  soft Key.
   - To enter a new settlement:
     1. Tap the soft Key with the name of the settlement, or if you have changed the country/state, tap  .
     2. Start entering the settlement name on the keyboard.
     3. Get to the list of search results:
        - After entering a couple of characters, the names that match the string appear in a list.
        - Tap  to open the list of results before it appears automatically.
     4. Pick the settlement from the list.

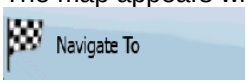
4. Enter the street name:
   1. Tap  .
   2. Start entering the street name on the keyboard.
   3. Get to the list of results:
      - After entering a couple of characters, the names that match the string appear in a list.
      - Tap  to open the list of results before it appears automatically.
   4. Pick the street from the list.

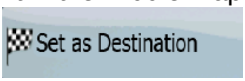
5. Tap the 
   - If only a few intersecting streets exist, their list appears immediately.
   - In case of a longer street, a keyboard screen appears. Start entering the name of the intersecting street on the keyboard. As you type, if the matching streets can be shown on one

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screen, their list appears automatically.

6. Tap the desired intersecting street in the list.

7. The map appears with the selected point in the middle. Tap 

(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Selecting a City Center as the Destination

The City Center is not the geometric center of the settlement but an arbitrary point the map creators have chosen. In towns and villages, it is usually the most important intersection; in larger cities, it is an important intersection.
The procedure is explained starting from the Navigation menu.

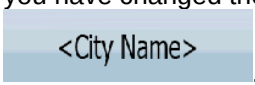
1. Tap the following soft Keys: 

(Simple mode), or 

, 

(Advanced mode).

2. By default, **Go Drive** proposes the country/state and settlement where you are. If needed, tap the soft Key with the name of the country/state, and select a different one from the list.

3. If needed, change the settlement:
   - To select the settlement from the list of recently used ones, tap the  soft Key.
   - To enter a new settlement:
     1. Tap the soft Key with the name of the settlement, or if you have changed the country/state, tap 

.
     2. Start entering the settlement name on the keyboard.
     3. Get to the list of search results:
        - After entering a couple of characters, the names that match the string appear in a list.

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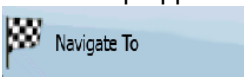
- Tap 

to open the list of results before it appears automatically.

3. Pick the settlement from the list.

4. Tap the 

soft Key.

5. The map appears with the selected point in the middle. Tap 

(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Entering an Address with a Postal Code

All of the above address searching possibilities can be performed with entering the postal code instead of the settlement name. Find below an example with a full address:
The procedure is explained starting from the Navigation menu.

1. Tap the following soft Keys: 

(Simple mode), or 

, 

(Advanced mode).

2. By default, **Go Drive** proposes the country/state and settlement where you are. If needed, tap the soft Key with the name of the country/state, and select a different one from the list.

3. Tap the soft Key with the name of the settlement, and enter the postal code:
    1. Start entering the postal code on the keyboard.
    2. Get to the list of results:
        - After entering a couple of numbers, the ones that are a match appear in a list.
        - Tap 

to open the list of results before it appears automatically.
    3. Pick the settlement from the list.

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4. Enter the street name:
    1. Tap 

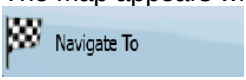
.
    2. Start entering the street name on the keyboard.
    3. Get to the list of results:
        - After entering a couple of characters, the names that match the string appear in a list.
        - Tap 

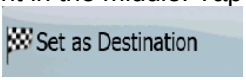
to open the list of results before it appears automatically.
    4. Pick the street from the list.

5. Enter the house number:
    1. Tap 

.
    2. Enter the house number on the keyboard.
    3. Tap 

to finish entering the address.

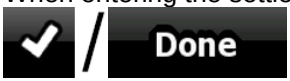
6. The map appears with the selected point in the middle. Tap 

(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Tips on Entering Addresses Quickly

When you are entering the name of a settlement or a street, **Go Drive** only displays those characters that appear in possible search results. The other characters are greyed out.

- When entering the settlement name or the street name, tap the 

soft Key after a couple of letters; **Go Drive** lists the items that contain the character set.

- You can speed up finding an intersection:

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- Search first for the street with a less common or less usual name; fewer letters are enough to find it.
- If one of the streets is shorter, search for that one first. You can then find the second one faster.

- You can search for both the type and the name of a road. If the same word appears in several names, for example in the name of streets, roads and avenues, you can obtain the result faster if you enter the first letter of the street type: For example, enter **Pi A** to obtain **Pine Avenue** and skip all **Pine Streets** and **Pickwick Roads**.

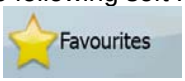
- You can also search in postal codes. This is useful when a street name is common and it is used in several districts of a city.

SELECTING THE DESTINATION FROM YOUR FAVORITES

You can select a location that you have already saved as a Favorite to be your destination. The procedure is explained starting from the Navigation menu.

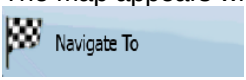
1. Tap the following soft Keys: 

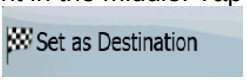
(Simple mode) or 

, 

(Advanced mode).

2. Tap the Favorite that you want to set as your destination.

3. The map appears with the selected point in the middle. Tap 

(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

SELECTING THE DESTINATION FROM THE POIS

You can select your destination from the POIs included with **Go Drive** or from the ones you have previously created.
The procedure is explained starting from the Navigation menu.

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1. Tap the following soft Keys: 

(Simple mode), or 

, 

(Advanced mode).

2. Select the area around which the POI should be searched:

   - 

: The POI will be searched around a given address.
   - 

: The map appears with the Cursor in the middle. Modify the location of the Cursor if necessary, then tap 

. The POI will be searched around the given location.
   - 

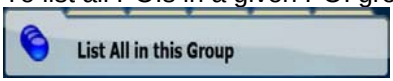
: The POI will be searched around the current GPS position.
   - 

: The POI will be searched around the destination of the active route.
   - 

: The POI will be searched not around a given point but by the size of the detour it means from the active route. This can be useful if you search for a later stopover that causes only a minimal detour. For example upcoming petrol stations or restaurants.

3. You can narrow the search with the following: Select the POI group (e.g. Accommodation), and after that, if needed, select the POI subgroup (e.g. Hotel or Motel).

   - To find the POI by its name, tap 

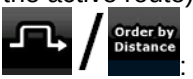
, and use the keyboard to enter a part of the name.
   - To list all POIs in a given POI group, tap 

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4. [optional] When finally the list of results appear, you can sort the list:
   - 

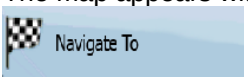
: sort the list alphabetically (available when you search around a single location)
   - 

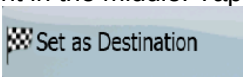
: sort the list by the distance from your current position in a straight line (available when you search around a single location)
   - 

: sort the list by the distance to drive on route from your current position (available when you search along the active route)
   - 

: sort the list by the size of the needed detour (available when

5. Tap the desired POI in the list.

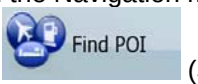
6. The map appears with the selected point in the middle. Tap 

(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

SELECTING THE DESTINATION WITH SAVED POI SEARCH CRITERIA

POI search criteria can be saved in the POI section of the Manage menu, but **Go Drive** is already shipped with some saved criteria you can use instantly when searching for a POI.
The procedure is explained starting from the Navigation menu.

1. Tap the following soft Keys: 

(Simple mode), or 

, 

(Advanced mode).

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2. Tap  / 

3. Select one of the saved criteria and the list of matching POIs appear.
4. Tap the desired POI in the list.
5. The map appears with the selected point in the middle. Tap
6. 

(Simple mode) or 

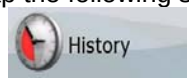
(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Selecting the destination from the History

The destinations that you have set earlier appear in the History. The procedure is explained starting from the Navigation menu.

1. Tap the following soft Keys: 

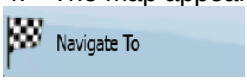
(Simple mode), or 

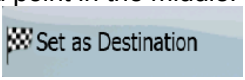
, 

(Advanced mode).

2. If necessary, turn the page with  to see earlier destinations.

3. Tap the desired item.

4. The map appears with the selected point in the middle. Tap 

(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

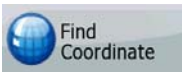
Selecting the destination by entering its coordinate

This feature is available in Advanced mode only. The procedure is

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explained starting from the Navigation menu.

1. Tap the following soft Keys: 



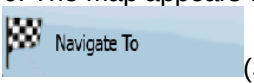
2. [optional] Tap 

to change the format of the displayed coordinates.

3. Tap the latitude or longitude value to change the coordinate.

4. Enter the coordinate values in WGS84 format on the keyboard: the latitude (N or S) and the longitude (E or W).

5. Tap 

6. The map appears with the selected point in the middle. Tap 

(Simple mode) or 

(Advanced mode) from the Cursor menu. The route is then automatically calculated, and you can start navigating.

Creating a Multi-point Route (inserting a Via Point)

Multi-point routes are created from simple routes, so a route must be active first. One of the ways of expanding the route is to keep the destination, and to add via points (intermediate destinations).
This feature is available in Advanced mode only.

1. Select a new location as you did in the previous sections. This will be the additional destination in the route.
2. The map appears with the selected point in the middle, and the Cursor menu opens automatically.

3. Tap 

to add the point as an intermediate destination preceding the final destination of the route.

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4. [optional] To add more points to the route, repeat the above steps as many times as you like.

If you insert a via point in a route that is already a multi-point route, you will automatically be taken to the Edit Route screen where you can determine the position of the intermediate route point. When you enter the screen, the new via point is placed as the last via point before the final destination. The new point is the selected point in the list.

You have the following options:

Soft Key	Action
	The selected point moves up in the list (becomes a via point to be reached earlier). Tap this soft Key repeatedly, and the point becomes the start point of the route.
	The selected point moves down in the list (becomes a via point to be reached later). Tap this soft Key repeatedly, and the point becomes the final destination of the route.
	The route is reversed. The start point becomes the destination, the destination becomes the start point, and all via points are to be reached in the opposite order than before.
	The route is optimized. The start point and the destination remain at their position, but the via points are reordered to make the shortest possible route.
	The selected point is removed from the route. The route remains as it was before adding the new point.

Every time a new point is added, the route is recalculated automatically, and you can start navigating right away.

Creating a Multi-point Route (Append a New Destination)

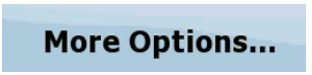
Multi-point routes are created from simple routes, so a route must be active first. One of the ways of expanding the route is to add a new destination. The previous destination becomes the last via point of

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the route.
This feature is available in Advanced mode only.

1. Select a new location as you did in the previous sections. This will be the additional destination in the route.

2. The map appears with the selected point in the middle, and the Cursor menu opens automatically.

3. Tap 

to open the full Cursor menu with the additional functions.

4. Tap 

to add the point as a new final destination demoting the previous one to the last intermediate destination.

5. [optional] To add more points to the route, repeat the above steps as many times as you like.

Every time a new point is added, the route is recalculated automatically, and you can start navigating right away.

Editing the Route

This feature is available in Advanced mode only.

Tap the following soft Keys: 

, 

, 

The list of route points appear with the start point at the top of the list and the final destination at the bottom. If several via points exist, you might need to turn the page.

Tap one of the route points in the list. You have the following options:

Soft Key	**Action**

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	The selected point moves up in the list (becomes a via point to be reached earlier). Tap this soft Key repeatedly, and the point becomes the start point of the route.
	The selected point moves down in the list (becomes a via point to be reached later). Tap this soft Key repeatedly, and the point becomes the final destination of the route.
	The route is reversed. The start point becomes the destination, the destination becomes the start point, and all via points are to be reached in the opposite order than before.
	The route is optimized. The start point and the destination remain at their position, but the via points are reordered to make the shortest possible route.
	The selected point is removed from the route.

As soon as you leave this screen, the route is recalculated automatically, and you can start navigating right away.

Viewing Whole Route on the Map (Fit-to-Screen)

The map can be moved and scaled to show the whole line of the route. You do not need to manipulate the map manually. The Plan on Map feature does it for you.
In **Advanced mode** you have the following options to enter Plan on Map:

- Via the Find menu: tap  ,  ,  .
- Via the Route Information screen: tap  ,  ,  ,  , ,
- , .
- Via the Route Information screen using a shortcut: tap

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,  / 

.

In **Simple mode** the last option is available only.

Watching the Simulation of the Route

This feature is available in Advanced mode only. The procedure is explained starting from the Map screen.

1. Tap the following soft Keys: 

, 

.

2. The Route menu appears. There are two ways of running the route simulation:

   - Tap 

to run the simulation at high speed to give you a quick overview of the route.

   - Tap 

   - to run the simulation at normal speed and with voice guidance instructions announced. This option is for demonstration purposes, or for checking difficult parts of the route in advance.

3. The simulation can be aborted any time by tapping 

.

Enabling Safety Mode

This feature is available in Advanced mode only.
Safety Mode disables the touch screen above 10 km/h (6 mph) to keep your attention on the road. While driving, you will not be able to set a new destination or to change settings. The only screen control that remains enabled is the gesture that puts you back on the Map screen.
The procedure is explained starting from the Map screen.

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Tap the following soft Keys: 

, 

, 

, 

.

Pausing the Active Route

You do not need to pause the active route: when you start driving again, **Go Drive** restarts the voice instructions from your position.

Deleting the Next Via Point from the Route

The easiest way to delete the upcoming route point (the next via point) in both Simple mode and Advanced mode is to open the Route Information screen by tapping the Turn Preview field (

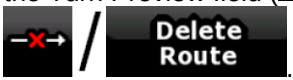
) on the Map screen, and then tapping 

In Advanced mode, you have another option. Tap the following soft Keys: 

,

Deleting the Active Route

The easiest way to delete the active route in both Simple mode and Advanced mode is to open the Route Information screen by tapping the Turn Preview field (

)on the Map screen, and then tapping 

.

In Advanced mode, you have another option. Tap the following soft Keys: 

, , .

Note! If via points exist in the active route, you cannot delete the route immediately on the Route Information screen. Tap

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repeatedly until all via points disappear and the 

soft Key appears. Tap it to cancel the whole route.

Using Track Logs

Go Drive can record the track (how your GPS position changed) that you drive.

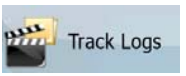
Tip! You do not need to select a destination and create a route for this; you can also record your driving path while cruising.

This feature is available in Advanced mode only. The procedure is explained starting from the Map screen.

Recording the travelled path (creating a Track Log)

1. Start driving.
2. Tap the following soft Keys 

, 

, 

3. Start the recording: tap the 

soft Key. You return to the map and you can continue driving.
4. Repeat the above steps, then tap 

later to stop the recording. **Go Drive** labels the Track Log with a time stamp.

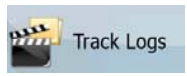
(As an alternative, you can tap the  soft Key in the Quick menu to start, and later to stop the Track Log recording.)

Simulating a Track Log on the map

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1. Tap the following soft Keys: 

, 

, 

2. Locate the desired Track Log, and then tap the  soft Key next to it.

3. The map returns, and the Track Log simulation (a life-like replay) begins.

4. You can stop the replay any time by tapping the 

soft Key.

Changing the color of a Track Log

1. Tap the following soft Keys: 

, 

, 

.
2. Tap the desired Track Log and then tap one of the color soft Keys.

Saving a Route

This feature is available in Advanced mode only.
The procedure is explained starting from the Map screen.

Tap the following soft Keys: 

, 

, 

Enter a name for the saved route, and then tap 

When you save a route, **Go Drive** not only saves the route points but the whole itinerary:

- The saved route might have been influenced by TMC information. When you later use the route, it appears as it was

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saved, but if it needs to be recalculated, the current TMC information will be used in the new route.

- If you updated your map since you first saved the route, **Go Drive** recognizes the change, and recalculates the driving instructions according to the latest available map information.

- **Go Drive** deletes from the route the via points that you already left behind during navigation together with the road segments used to reach it. To avoid this, if you want to save the route, you need to save it before you start navigating.

Loading a Saved Route

This feature is available in Advanced mode only.
The procedure is explained starting from the Map screen.



, 

, 

.

1. Tap the following soft Keys:

2. Tap the route you wish to navigate.

3. In the very likely case when the start position of the saved route is different from the current GPS position, you need to confirm whether you want to stop navigating from the current GPS position to use the start point of the loaded route.

   - If you choose this option, the automatic off-route recalculation will be disabled.
   - If you choose to keep the current GPS position as the start point, the route will be recalculated starting from your current position.

4. The map appears, and you can start navigating.

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REFERENCE BOOK (ADVANCED MODE)

On the following pages you will find the description of the different menu screens of **Go Drive** in Advanced mode. In Simple mode, these functions work the same way, but only a few of them are available.

The Navigation menu:

Go Drive starts with the Navigation menu. From there you can access the following screens:

Screen	Soft Key	Description
Map		The Map screen.
Find		Selecting the destination (for example an address or a POI) or using the search engine of **Go Drive** for any other reason (for example to look for the phone number of a POI).
Route		Managing the active route (obtaining information about it, changing or deleting it or parts of it) or planning a route without GPS reception.
Manage		Managing user data, such as saved locations (POIs, Favorites, Pins, and History items), Saved Routes, and Track Logs.
Settings		Managing the behavior of **Go Drive**, for example the map layout during navigation, the used languages or the warnings.

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Map Screen

The most important and most often used screen of **Go Drive** is the Map screen.

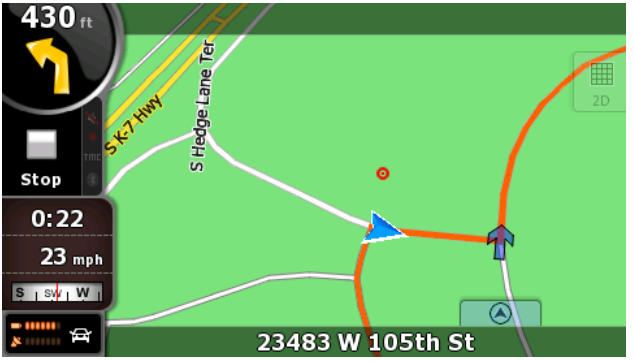
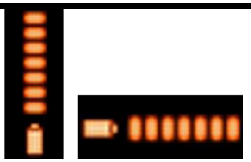
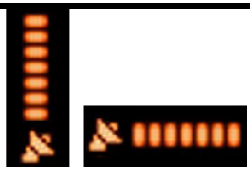


Figure 4-8: Map Screen Advanced Mode

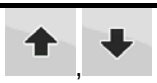
During navigation, the screen shows route information and trip data (left screenshot), but when you tap the map, additional soft Keys and controls appear for a few seconds (right screenshot). Most parts of the screen behave as soft Keys.

Symbol	Name	Action
	Turn Preview, that is, the next route event	Opens the Route Information screen
	Second upcoming route event	Opens the Itinerary
	Trip data	Opens the Trip Information screen
	Battery status	Opens the Quick menu

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Symbol	Name	Action
	GPS position quality	Opens the Quick menu
	Vehicle used in route calculation	Opens the Quick menu
Top row	Next street	n/a
Bottom row	Current street and house numbers on left and right	n/a
	Map view modes	Switches between 2D and 3D map modes
	Menu	Opens the Navigation menu
	Detour	Opens the Detour screen, two ways of modifying the route: • the list of Saved Search Criteria • a soft Key to avoid parts of the route
	Position menu (appears when navigating a route)	Opens the Position menu

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Symbol	Name	Action
	Cursor menu (appears when there is no GPS position or the Cursor is not at the current GPS position)	Opens the Cursor menu
 	Open/Close Map control soft Keys	Tap this soft Key to show or hide the following map control soft Keys: • Zoom in/out • Rotate left/right (3D map only) • Tilt up/down (3D map only) • Zoom preset soft Keys (2D map only) • Tilt and zoom preset soft Keys (3D map only) • Return to GPS position soft Key • Smart Zoom soft Key
	Rotate left, rotate right	Rotates the 3D map left or right
	Tilt up, tilt down	Tilts the 3D map
	Zoom in, zoom out	Scales the map

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Symbol	Name	Action
	Return to GPS position (appears when GPS position is available and you have moved the map)	Tap this soft Key to move the map back to the current GPS position. If the map has been rotated in 3D mode, automatic map rotation is also re-enabled.
	Enable Smart Zoom (replaces the previous soft Key if there is no GPS position or the map has not been moved)	Tap this soft Key once to enable Smart Zoom. Tap&hold the soft Key to set the zoom limits of Smart Zoom.
	Zoom preset soft Keys (available in Advanced mode only)	Tap one of the preset soft Keys to set the zoom level to a fix,
	Zoom preset soft Keys (available in Advanced mode only)	Tap one of the preset soft Keys to set the zoom level to a fix, predefined value. Smart Zoom is disabled. These soft Keys are available in 2D mode Tap&hold any of the soft Keys to set its value to the current zoom level or to reset it to its original value.,

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Symbol	Name	Action
	Tilt preset soft Keys (available in Advanced mode only)	Tap one of the preset soft Keys to set the tilt and zoom levels to fix, predefined values. Smart Zoom is disabled. These soft Keys are available in 3D mode. Tap&hold any of the soft Keys to set its value to the current tilt and zoom levels, or to reset it to its original value.
	Current GPS position (on nearest road)	n/a
	Cursor (selected map location)	n/a
	Lane information	n/a
Orange line	Active route	n/a
	Map scale (2D map only)	n/a

Icons on the map

There are several status icons on the map. Most of them also function as a soft Key. The information they provide is as follows:

- GPS position quality
- Battery status
- Vehicle type used for route calculation
- Sound status (muted or enabled)

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- Track log recording status
- TMC reception and processing status
- Bluetooth connection and communication status

Battery, GPS Position Quality, Vehicle Type Indicator

This is a complex indicator, and a soft Key that opens the Quick menu. The battery part shows information about the rechargeable battery of the device.

Icon	Description
	The battery is charging. The device runs on external power.
	The battery is not charging but it is full.

Icon	Description
	The battery is not full but it still has enough capacity.
	You need to recharge the battery.

The GPS reception quality shows the current accuracy of the position information.

Icon	Description
	There is no connection to the GPS receiver: GPS navigation is not possible. Devices with a built-in GPS receiver are permanently connected. On such devices, the icon does not appear in normal circumstances.
	**Go Drive** is connected to the GPS receiver, but the signal is too weak and the receiver cannot determine the GPS position. GPS navigation is not possible.

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Icon	Description
	Only a few satellites are received. Position information is available, but elevation (altitude) cannot be calculated. GPS navigation is possible, but the position error may be significant.
	Altitude information is available, the position is a 3D position. GPS navigation is possible.

The remaining part of the field shows the vehicle type used for route calculation.

Icon	Vehicle type
	Car
	Taxi
	Bus
	Emergency vehicles
	Bicycle
	Pedestrian

Status Indicator Strip

This is a complex indicator. In one strip it indicates the following status information:

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Icon	Description
	The sound output of **Go Drive** is muted.

Icon	Description
	The sound output of **Go Drive** is enabled.
	**Go Drive** records a Track log when GPS position is available.
	Track log recording is disabled.
	No TMC receiver is connected or TMC is turned off.
	TMC receiver is connected and a radio station with TMC broadcast is received.
	There are new, unread TMC events.
	A part of the route is bypassed based on TMC events.
	A part of the route is mentioned in TMC events but could not be bypassed (for example, the destination is on a congested street).
	The Bluetooth radio is switched off.
	The Bluetooth radio is turned on, but no telephone is connected.
	There is an error in the Bluetooth connection.
	**Go Drive** is connected to a telephone as a handsfree set via Bluetooth.
	A phone call is in progress over the Bluetooth connection.

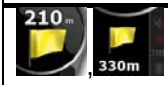
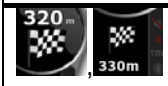
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Next two Route Events (Turn Preview fields)

There are two fields reserved on the Map screen to display the next two maneuvers (route events that are listed in the Itinerary). Both the type of the event (turn, roundabout, exiting motorway, etc.) and its distance from the current GPS position is displayed.
Most of these icons are very intuitive and you also know them as road signs. The following table lists some of the frequently shown route events. The same symbols are used in both fields:

Icon	Description
	Turn left.
	Turn right.
	Turn back.
	Bear right.
	Turn sharp left.

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Icon	Description
	Keep left.
	Continue straight in the intersection.
	Enter roundabout. The number of the exit is shown in the circle, but only for the next turn.
	Enter motorway.
	Exit motorway.
	Board ferry.
	Leave ferry.
	Approaching the next via point.
	Approaching the destination.

In certain situations when route events are not important, these fields show other useful pieces of information.

Objects on the map

Streets and Roads

Go Drive shows the streets in a way that is similar to how the paper road maps show them. Their width and colors correspond to their importance: you can easily tell a motorway from a small street.

Tip! If you prefer not to see street names during navigation, turn them off.

Elements of the Active Route

Go Drive shows the route in the following way:

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Symbol	Name	Description
	Current GPS position	Your current position displayed on the map. • In pedestrian mode it is the exact GPS position. • If a vehicle is selected for route calculation, the arrow is put on the nearest road.
	Cursor map (selected location)	The location selected in the Find menu, or a map point selected by tapping the map.
	Start point	The first point of the route. Normally, if GPS position is available, it is the start point of the route. If there is no valid GPS position, **Go Drive** uses the last known GPS position as the start point. When you are using a saved route, **Go Drive** asks you if you want to use your GPS position or the first point in the saved route as the start point. You can also modify the start point in the Cursor menu. If you do so, the automatic off-route recalculation needs to be turned off to keep the selected point as the start point. If the automatic off-route recalculation is disabled for any of the above, tapping the  icon in the Turn Preview field not only initiates a route recalculation from the current GPS position, but it will re-enable the automatic off-route recalculation as well.
	Via point	A via point is an intermediate destination. You can place as many

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Symbol	Name	Description
		via points as you want.
	Destination (end point)	The last point of the route, the final destination.

Symbol	Name	Description
	Route color	The route always stands out with its color on the map, both in daytime and in night color mode. The active leg of the route is always displayed in a brighter shade than the inactive (upcoming) legs.
	Active leg of the route	The section of the route on which you are driving. If you have not added any via points (only a destination), the entire route is the active leg. If you have added via points, the active leg is the part of the route from your current location to the next route point (the next via point, or the destination if there are no more via points to reach).
	Inactive legs of the route	The future sections of the route; each of them becomes active when you reach the via point at its beginning.
	Streets and roads that are excluded from the navigation	You can choose whether you want to use or avoid certain road types. However, when **Go Drive** cannot avoid such roads, the route will include them and it will show them in a color that is different from the route color.

Detour menu

This screen contains quick detour possibilities during navigation. It can be opened directly from the Map screen by tapping 

. You have the following options:

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- On the main part of the screen you can see the first page of Saved Search Criteria. Select any of the criteria to quickly receive the list of nearest matching POIs, and instantly plan a new route to the desired one, or insert it as a via point in your active route.
- In Advanced mode more soft Keys appear at the bottom:
  - 

: If you want to bypass a part of the route starting from the next intersection, tap this soft Key, and select a distance to bypass.
  - 

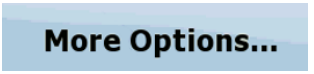
: If you have used the above function before, tap this soft Key to clear the restrictions from the map.

Cursor menu

As soon as you select one point in the Find menu, the map appears with the Cursor menu, a menu with possible actions for the selected point.

Alternatively, when you tap the map, control soft Keys appear. Tap again to place the Cursor, a radiating red dot. Now tap 

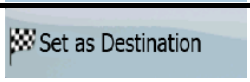
and the Cursor menu opens with a list of options. In order to show a part of the map with the Cursor menu, it contains only a few soft Keys first.

Tap 

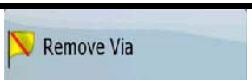
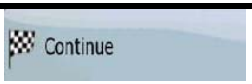
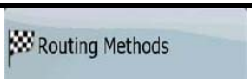
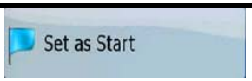
to get all the options.

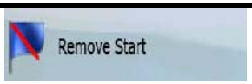
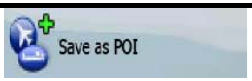
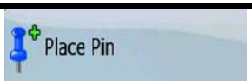
Soft Key	Description
	Closes the Cursor menu, and returns to the previous screen.
	Zooms out the map.

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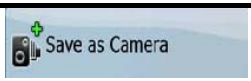
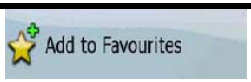
Soft Key	Description
	Zooms in the map.
	With the Cursor menu open, you can still move or scale the map, and tap the map anywhere to place the Cursor to a new location, but when you use this soft Key, the Cursor jumps back to the place where it was at the time when you opened the Cursor menu.
	Displayed at the Cursor if it is at the same location with which the Cursor menu was opened.
	Displayed at the Cursor if it has been relocated since the Cursor menu was opened.
	Opens a new screen with the address and coordinate of the Cursor, and the list of nearby POIs.
	Opens the full-screen Cursor menu with all the possible options.
	A new route is calculated with the Cursor as the destination. The previous route is deleted.
	If the Cursor is at or near the destination, this soft Key replaces the previous one, and deletes the current destination from the route. The last via point is promoted as destination, or if there are no via points, the route is deleted.
	The Cursor is added to the active route as an intermediate route point, a point to be reached before the destination. If there is already a via point in the route, the Edit Route screen opens to let you decide where the new via point is to appear in the route.

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Soft Key	Description
	If the Cursor is at or near one of the via points, this soft Key replaces the previous one, and deletes the selected via point from the route. The route is recalculated without the deleted point.
	The Cursor is appended at the end of the route as the new destination. The previous destination is demoted, and becomes the last via point.
	This soft Key is similar to the soft Key, but a new screen opens, and the route is calculated with all the possible route calculation methods (Fast, Short, Economical and Easy). Observe the results, and choose one of the routes to navigate.
	The Cursor becomes the start point of the route. This means that the route will not be started from the current GPS position, and Automatic Off-route Recalculation needs to be turned off to keep the start point the selected one.

Soft Key	Description
	If the Cursor is at or near the selected start point, this soft Key replaces the previous one, and deletes the start point from the route. The current GPS position is used again as the start point, and Automatic Off-route Recalculation is re-enabled.
	The Cursor is saved as a user POI. Select the POI group and give a name for the POI, then select a suitable icon, enter a phone number, and additional information if you like.
	Map locations can be marked with Pins. Unlike POIs, a Pin has no name and other details, only a color to let you tell one from another on the map.

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Soft Key	Description
	If the Cursor is at or near a Pin, this soft Key replaces the previous one, and deletes the Pin the Cursor is near to.
	The Cursor is saved as the location of a Road Safety Camera (speed camera or red light camera). A new screen appears where you can set the type of the camera, the direction of the measured traffic, and the speed limit checked (if applicable).
	If the Cursor is at or near a Road Safety Camera, this soft Key replaces the previous one, and opens a new screen where you can edit the details of the camera.
	The location of the Cursor is added to the list of frequently visited destinations, the so called Favorites. You can give a name for the Favorite.

Position menu

When you follow the recommended route on the map (the Cursor is the current GPS position), the Position menu replaces the Cursor menu. It does not contain soft Keys that modify the current route, as the GPS position is not useful as a route point.

To open the Position menu, tap 

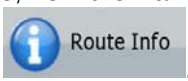
Route Information screen

The Route Information screen has all the data and some of the functions you need while you navigate. There are two ways to open this screen:

- It can be opened directly from the Map screen by tapping the Turn Preview field ().

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- In Advanced mode, from the Navigation menu tap the following soft Keys: 

, 

.



Figure 4-9: Route Information Screen

In the top section of the screen you see information about the current route. The fields on this screen are continuously updated while you keep the screen open.
When you open the screen, all fields contain information about reaching your final destination. Tap any of the fields to see data on the via points starting from the first one through the final destination again.
You have the following data and functions on this screen:

Name	Description	Function
Route line	The upper part of this screen shows your planned route as a horizontal line. Its leftmost point is the start of the route, the rightmost one is the final destination, and you can see your via point flags along the line, spaced in proportion to their distance.	Tap this field to change the content of all data fields to via point information.

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Name	Description	Function
Estimated Arrival	Shows the estimated arrival time at the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	Tap this field to change the content of all data fields to via point information.
Distance Left	Shows the distance you need to travel on the route before reaching your final destination.	Tap this field to change the content of all data fields to via point information.
Time Left	Shows the time needed to reach the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	Tap this field to change the content of all data fields to via point information.
Method	This field shows how the route was calculated. It either displays the Route Calculation Method or the Vehicle field from the Route Planning options. If you have chosen Car, Taxi or Bus, the type of the route (Fast, Short, Easy or Economical) will be displayed here; if you have selected Emergency, Bicycle or Pedestrian, this information will be displayed here.	Tap this field to change the content of all data fields to via point information.
Warning icons	In these square fields graphical symbol are displayed in case warnings are attached to the planned	Tap any of the icons for an explanation.

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Name	Description	Function
	route. These are warnings, so icons always show information for the whole route, even if the data fields display values from your current position to a via point only.	
		Opens the Route Planning options screen from theSettings menu.
		Opens the map screen designed for route planning.
	Appears only if at least one via point exists.	Deletes the next via point from the route.
	Appears only if there are no via points in the route.	Deletes the active route.

Trip Information screen

The Trip Information screen has both route and travel data you might need during your journey. It can be opened directly from the Map screen by tapping the Trip Data field (

).

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Figure 4-10: Trip Information Screen

The fields on this screen are continuously updated while you keep the screen open. When you open the screen, all route data fields contain information about reaching your final destination. Tap 

and the fields concerning your route display data for the next via point. Tap the soft Key repeatedly to toggle between the two possibilities.

You have the following data and functions on this screen:

Name	Description	Function
 or 	Shows whether the route data fields show information about the final destination (checkered flag) or about the next via point (yellow flag).	
Field next to the flag	Shows the name or number of the current street or road.	

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Name	Description	Function
Turn Preview	Shows the type and distance of the next route event.	
Compass	Shows the current heading.	Tap this field to show it on the map screen in one of the Trip Data fields.
Speedometer	Shows the current speed both graphically and as a number.	Tap this field to show it on the map screen in one of the Trip Data fields.
Distance Remaining	Shows the distance you need to travel on the route before reaching your final destination.	Tap this field to show it on the map screen in one of the Trip Data fields.
Time Remaining	Shows the time needed to reach the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	Tap this field to show it on the map screen in one of the Trip Data fields.

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Name	Description	Function
Arrival Time	Shows the estimated arrival time at the final destination of the route based on information available for the remaining segments of the route. The calculation cannot take into account traffic jams and other possible delays.	Tap this field to show it on the map screen in one of the Trip Data fields.
GPS Time	Shows the current time corrected with time zone offset. The accurate time comes from the GPS satellites, and the time zone information comes from the map or it can be set manually in Regional settings.	Tap this field to show it on the map screen in one of the Trip Data fields.
Altitude	Shows the elevation if it is provided by the GPS receiver.	Tap this field to show it on the map screen in one of the Trip Data fields.
Speed Limit	Shows the speed limit of the current street if the map contains it.	Tap this field to show it on the map screen in one of the Trip Data fields.
		Opens a new screen with three resettable Trip Computers.

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Name	Description	Function
		Tap this soft Key to change the content of the Route Data fields to show information about the next via point.
	If you tap the previous soft Key, this one replaces it.	Tap this soft Key and the Route Data fields show information about the final destination again.

Most of the fields on this screen have a  symbol next to them. This symbol shows whether the field it is attached to is shown on the map as a Trip Data. It also shows the position of the data as follows:

Symbol	Description
	This value is not shown on the map screen.
	This value appears on the map screen in the Trip Data area. This is the value at the top.
	This value appears on the map screen in the Trip Data area. This is the value in the middle.
	This value appears on the map screen in the Trip Data area. This is the value at the bottom.

Trip Computer screen

The Trip Computer screen provides collected trip data. It can be opened from the Trip Information screen by tapping

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The fields on this screen are continuously updated while you keep the screen open. You can switch between the trips, pause then resume them, or reset their data. You have the following functions on this screen:

Name	Description
	Pauses the trip currently shown on the screen. Values on the screen stop changing.
	This soft Key replaces the previous one if it has been activated. Tap it to resume collecting trip data.
	Resets all counters of the currently shown trip. Collecting trip data is restarted only when **Go Drive** receives a position from the GPS.
	Cycles through all trips.

QUICK MENU

The Quick menu is a selection of controls that are frequently needed during navigation. It can be opened directly from the Map screen by tapping  .

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Figure 4-11: Quick Menu

If you tap any of the switches in the Quick menu except for the Vehicle type, the Map screen immediately returns. A switch is on if its lamp is lit. The Vehicle type soft Key is different. It is a multi-value soft Key. It opens a list of available choices, and the symbol of the selected vehicle is shown on the soft Key.

Name	Main function (single tap)	Function (tap and hold)
Master Volume slider	Adjusts the sound volume of the device. All sounds of the application are involved.	No action.
	If you only adjust the volume, you need to use this soft Key to return to the Map screen.	Opens the Navigation menu.
	Mutes all sounds of **Go Drive**.	Opens Sound settings.

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Name	Main function (single tap)	Function (tap and hold)
	Switches between the daytime and night color schemes manually. This will not disable the automatic switching between the two schemes: the other color scheme returns at the next scheduled time.	Opens Color Profiles settings.
	3D buildings can be displayed on the map. Use this switch to suppress them temporarily.	Opens 3D Settings.
	Tap this soft Key and select the Vehicle type to be used for route calculation. Otherwise it is selected in Route Planning options in Settings. Changing the Vehicle type triggers an automatic route recalculation.	Opens Route Planning options.
	Turns track log recording on or off otherwise controlled on the Manage Track Logs screen.	Opens Manage Track Logs.
	Opens the GPS Data screen with satellite information, data coming from the GPS receiver, and a shortcut to the GPS Settings screen if needed (GPS	No action.

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Name	Main function (single tap)	Function (tap and hold)
	receiver detection is automatic).	
	When a TMC receiver is connected to **Go Drive**, this soft Key opens the list of TMC messages, and provides access to the TMC Settings and the radio station settings screens.	No action.
	Opens the Bluetooth settings screen.	No action.

GPS DATA SCREEN

Tap the following soft Keys:   to open the GPS Data screen and to see the status of the GPS reception.

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Figure 4-12: GPS Status

Icon	Color	Name	Description
	Green	GPS position quality indicator	**Go Drive** has a connection to the GPS receiver and GPS position information is available in 3D: **Go Drive** can calculate both your horizontal and vertical GPS position.
	Yellow		**Go Drive** has a connection to the GPS receiver and GPS position information is available in 2D: only the horizontal position is calculated, **Go Drive** cannot calculate your vertical GPS

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Icon	Color	Name	Description
			position.
	Grey		**Go Drive** has a connection to the GPS receiver but GPS position information is not available.
	Red		**Go Drive** has no connection to the GPS receiver.
	Green, blinking	GPS connection quality	**Go Drive** is connected to the GPS receiver.
	Yellow, blinking	indicator	**Go Drive** has no connection to the GPS receiver but it is still trying to establish a connection.
	Red, blinking		**Go Drive** has no connection to the GPS receiver and does not try to establish a connection.

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Icon	Color	Name	Description
Sky view circle			The virtual sky shows the visible part of the sky above you, with your position as the center. The satellites are shown at their current positions. The GPS receives data from both the green and yellow satellites. Signals from the yellow satellites are only received, while green ones are used by the GPS to calculate your current location.
n/a	Coordinates		Your current GPS position in WGS84 format.
n/a	Status bar for the satellites		Dark bars are for the yellow and lit bars are for the green satellites. The more satellites your GPS tracks (the green ones), the better is your calculated position.

Find menu

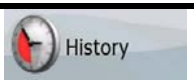
Select the destination of your route. Tap the following soft Keys:



, 

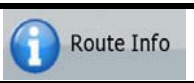
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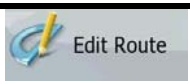
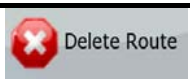
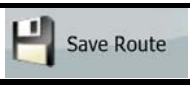
Soft Key	Description
	If you know at least a part of the address, this is the quickest way to find the location.
	You can select your destination from the thousands of POIs included with **Go Drive** or from the ones you have previously created.
	The destinations that you have already entered in **Go Drive** are available in the History list.
	You can select your destination by entering its coordinates.
	You can select as your destination a location that you have already saved as a Favorite.
	Opens a special 2D map screen optimized for route planning. Only the Zoom in and Zoom out soft Keys and the route modification soft Keys of the Cursor menu appear.

Route menu

Save, load and edit your routes. Tap the following soft Keys:
 ,  .

Soft Key	Description
	Opens a screen with useful route data.

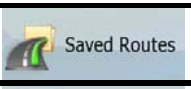
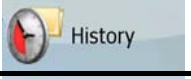
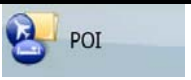
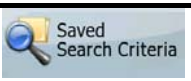
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Soft Key	Description
	You can browse the driving instructions that **Go Drive** follows during navigation. You can exclude maneuvers or streets to adjust the route to your preferences.
	You can modify the route: remove route points or change their order.
	Erase the active route with all its route points (start point, via points and destination). If you later decide that you need the same route, you will have to rebuild it from scratch.
	You can save the active route for later use.
	You can load a previously saved route for navigation.
	Opens the Route settings screen with controls to modify the vehicle, the road types used for route calculation, or the route calculation method.
	You can run a demonstration of the route at high speed.
	You can run a demonstration of the route at normal speed.

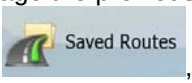
Manage Menu

You can manage the content that **Go Drive** stores. Tap the following soft Keys:  ,  .

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Soft Key	Description
	Renaming or deleting saved routes
	Deleting History items
	Recording, simulating, renaming or deleting track logs, assigning color to them to be shown on the map
	Renaming or deleting Favorites
	Creating, updating or deleting POIs Creating, updating or deleting POI groups Modifying POI visibility settings
	Creating, renaming or deleting Saved Search Criteria

MANAGE SAVED ROUTES

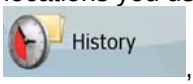
You can manage the previously saved routes. Tap the following soft Keys:  ,  ,  .

Soft Key	Description
Soft Key with the name of the saved route	Opens the selected route for editing.
	Deletes the selected route.
	Clears the list of saved routes.
 ,	Turns the page for additional list items.

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MANAGE HISTORY

You can manage the list of locations you used lately. Tap the following soft Keys: 

, 

, 

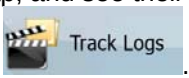
.

Soft Key	Description
	Deletes the selected item in the History.
	Deletes the entire History.
	Turns the page for additional list items.

MANAGE TRACK LOGS

You can record Track Logs, then play them back, display them on the map, and see their details. Tap the following soft Keys: 

, 

, 

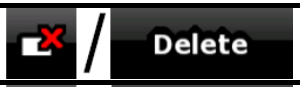
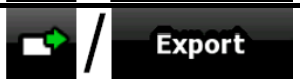
.

Soft Key	Description
	Starts recording the track that you drive. (You can also start recording a track log in the Quick menu.)
	Stops the ongoing Track Log recording. (You can also stop the track log recording in the Quick menu.)
Soft Key with the name of the track log	Shows the details of the selected Track Log.
	Starts a simulated playback of the selected Track Log on the map.

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 	Turns the page for additional list items.

When track log details are shown:

Soft Key	Description
Soft Key with the name of the Track Log	Opens a keyboard screen to let you rename the Track Log.
	Tap this soft Key to hide the Track Log on the map. No color will be assigned to the Track Log.
	Tap one of the colored soft Keys to assign a color to the Track Log. The Track Log will be shown on the map with this color.
	The map returns with the Track Log. The map is scaled to show the whole Track Log.
	Deletes the selected Track Log.
	Saves the Track Log on the inserted memory card in GPX format.

Manage Favorites

You can manage the list of your Favorites. Tap the following soft Keys:

Soft Key	Description
Soft Key with the name of the favorite	Opens the selected Favorite for editing.
	Deletes the selected item in the list of Favorites'.

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	Clears the list of Favorites'.
	Turns the page for additional list items.

MANAGE POIS

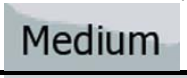
You can manage your POIs, and set the POI visibility for both your POIs and the ones that came with the product. Tap the following soft Keys:  ,  ,  .

Soft Key / Icon	Description
Soft Key with the name of the POI group	Opens the list of the subgroups of this POI group. The new list behaves the same as this one.
Soft Key with the name and address of a POI item	Opens the selected POI for editing. Only the POIs you have created appear in this list.
	Opens the selected POI group for editing.
	Tap to filter the list to contain only the POIs that you saved.
	Tap to see all POIs in the list.
	Creates a new POI group at the given group level.
	Turns the page for additional list items.
	This POI group is not shown on the map.
	This POI group and all its subgroups are shown on the map.
	This POI group and some of its subgroups are shown on the map.

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Soft Key / Icon	Description
	This POI group contains POIs that you saved.

When a POI group is open for editing:

Soft Key	Description
	Items in the POI group will not be shown on the map.
 , 	The distance soft Keys set the zoom level from which the items in the POI group will be shown on the map.
	Subgroups under the edited POI group will inherit its visibility settings.
Soft Key with the icon of the POI group	Tap this soft Key to select a new icon for the POI group.
	Deletes the edited POI group. You are only allowed to remove POI groups that you have created.

When a POI item is open for editing:

Soft Key	Description
Soft Key with the name of the POI	Tap this soft Key to rename the POI.
Soft Key with the icon of the POI	Tap this soft Key to select a new icon for the POI.
	Tap this soft Key to enter a telephone number for the POI.
	Tap this soft Key to enter additional information for the POI.

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Soft Key	Description
Delete	Tap this soft Key to delete the selected POI.
Change Group	Tap this soft Key to move the POI to another POI group or subgroup.

MANAGE SAVED SEARCH CRITERIA

You can manage the list of search criteria previously saved to easily find frequently searched POI types. Tap the following soft Keys: Menu, Manage, Saved Search Criteria.

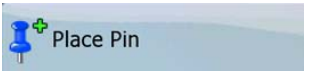
Soft Key	Description
Soft Key with the name of the Saved Search Criteria	Tap to rename the saved query.
	Deletes the selected item in the list.
/ Clear All	Deletes the entire list.
,	Turns the page for additional list items.
<Add new search>	Tap to save a new search criteria. Similar to how you search for a POI, select the search reference first, then select the POI group or subgroup to search in.

USER DATA MANAGEMENT

You can manage the data you have saved (Pins, POIs, Favorites', History, and Track logs) , and the settings you have made in the program. Tap the following soft Keys:

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Soft Key	Description
Remove Pins	Map locations can be marked with Pins using the  soft Key in the Cursor menu. Tap this soft Key to remove all your Pins from the map.
Backup User Data	All user data and the current settings will be saved on the inserted memory card. There is always one backup file. If you perform a backup later, the previous backup will be overwritten with the new information.
Restore User Data	All user data and settings will be overwritten with the information stored in the backup file. Data and settings created after the latest backup will be lost.
Delete User Data	All user data will be deleted, and settings will return to their factory defaults.
Reset Factory Settings	All settings will return to their factory defaults, but no user data will be deleted.

Settings Menu

You can configure the program settings, and modify the behavior of **Go Drive**. Tap the following soft Keys:  , .

The Settings menu has two pages of submenus. Tap  to access the other options.

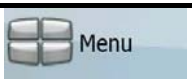
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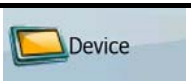
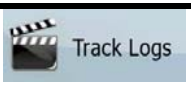
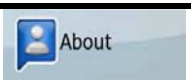


Figure 4-13 Settings Menu

Soft Key	Description
Map Screen	You can fine-tune the appearance and content of the Map screen.
Sound	You can adjust the sounds of **Go Drive**.
Route Planning	These settings determine how routes will be calculated.
Regional	These settings allow you to adjust the application to your local language, measurement units, time and date and their formats, as well as choose the voice guidance profile you prefer.
Navigation	You can control how **Go Drive** behaves during navigation.
Warnings	You can enable some handy warnings, and disable the touch screen in a moving vehicle with Safety Mode.
GPS	You can set up the connection to the GPS receiver.

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Soft Key	Description
	You can set up the connection to the TMC receiver. If the TMC receiver is working, you can select the radio station to be received.
	You can modify the look and behavior of the Menu screens.

Soft Key	Description
	You can change some device settings to control the screen backlight when **Go Drive** is running.
	You can set up an automatic Track Log saving, and fine-tune its settings.
	This screen has no navigation feature. It merely provides information about the maps and licenses included with your navigation system.
	You can switch to Simple mode. In Simple mode only a few of the above settings are available. The rest of the settings are set to values that are optimal for typical use.

MAP SCREEN SETTINGS

You can fine-tune the appearance and content of the Map screen.

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Tap the following soft Keys: 

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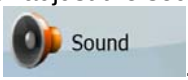
.

Soft Key	Description
Color Profiles	**Go Drive** is able to show the map and the menus in different colors during the day and during the night. Select the color profiles to be used in each mode, and select the automatic or manual switching between the daytime and night color profiles.
Elevation on 2D Map	2D maps can also display 3D information. These top-down maps can display elevation by colors and shading.

Soft Key	Description
Show Street Names	Street names and POI icons can be disturbing on the map during navigation. With this switch you can suppress these map elements when **Go Drive** is following your position on the map. If you move the map, both the street names and POI icons reappear immediately.
Lane Information	Some maps contain lane information to help you position your car in the upcoming intersection. This setting tells **Go Drive** whether to display this information at the top or at the bottom of the map.

SOUND SETTINGS

You can adjust the sounds of **Go Drive**. Tap the following soft Keys: 

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Soft Key	Description

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Soft Key	Description
Master Volume	Use the switch to mute all sounds of the device and then to re-enable them again. The position of the fader determines the volume level. The loudness of **Go Drive** is independent of your device settings. When you exit the program, the device default settings return.
Voice Guidance Volume	The slider adjusts the loudness of voice prompts. In its leftmost position, the voice guidance is suppressed; in its rightmost position, the master volume applies.
Key Sounds	Key sounds are audible confirmation of either pressing hardware soft Keys or tapping the touch screen. The switch turns the key sounds on or off. Key sounds are played at the master volume level.
Dynamic Volume	When driving at high speed, the noise in the car may be too loud to clearly hear the voice guidance and other sounds. Using Dynamic Volume you can instruct **Go Drive** to increase the volume when your speed exceeds a certain minimum, and reach its highest volume at the given maximum speed.

ROUTE PLANNING OPTIONS

These settings determine how routes will be calculated. Tap the following soft Keys:



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Soft Key	Description

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Soft Key	Description
Vehicle	You can set the type of vehicle you will use to navigate the route. Based upon this setting, some of the road types will be excluded from the route (e.g. motorways for pedestrians), or some of the restrictions may not be taken into account (e.g. emergency vehicles have only a few restrictions).
Road Types Used for Route Planning	To let the route fit your needs, you can also set which road types are to be considered for or to be excluded from the route, if possible. Excluding a route is a preference. It does not necessarily mean total prohibition. If your destination can only be accessed using some of the excluded road types, they will be used, but only as much as necessary. In this case a warning icon will be shown on the Route Information screen, and the part of the route not matching your preference will be displayed in a different color on the map.
Route Calculation Method	You can choose from different route types. The routing method can also be chosen while creating the route: when the destination is selected, tap  in the Cursor menu.
Use Traffic Information	When TMC messages are received, this setting tells **Go Drive** whether to use that information in route planning.

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Soft Key	Description
Recalculate to Avoid Traffic	This setting determines how **Go Drive** uses the received TMC information in route recalculation: • Automatic: When route recalculation becomes necessary based on the received TMC events, **Go Drive** recalculates the route automatically. • Manual: When route recalculation becomes necessary based on the received TMC events, **Go Drive** notifies you, but you can decide whether to recalculate the route or not. • Disabled: TMC events are only taken account when the route is recalculated in an off-route situation.

Vehicle Types:

- Car
- Taxi
- Bus
- Emergency vehicles
- Bicycle
- Pedestrian

Road Types Used for Route Planning:

Type	Description
Motorways	You might need to avoid motorways when you are driving a slow car or you are towing another vehicle.
Unpaved roads	**Go Drive** excludes unpaved roads by default: unpaved roads can be in a bad condition and usually you cannot reach the speed limit on them.
Toll roads	By default **Go Drive** includes toll roads (pay roads where there is a peruse charge) in the routes. If you disable toll roads, **Go Drive** plans the best toll-free route.
Charge roads	Charge roads are pay roads where you can purchase a pass or vignette to use the road for a longer period of time. They can be enabled or disabled separately from toll roads.

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Type	Description
Permit needed	You might need a permit or permission from the owners to use certain roads or to enter certain areas. **Go Drive** excludes these roads from the route calculation by default.
Ferries	**Go Drive** includes ferries in a planned route by default. However, a map does not necessarily contain information about the accessibility of temporary ferries. You might also need to pay a fare on ferries.
Cross-border planning	In some cases the route calculated according to your other navigation and route preferences would lead through another country. If you wish to always stay within the same country, turn this option off.
Carpool lanes	This control appears only when navigating in the USA. You should check whether you are allowed to use carpool lanes before enabling this road type.

Route Calculation Method types:

Option	Description
Fast	Gives the quickest possible route if you can travel at or near the speed limit on all roads. Usually the best selection for fast and normal cars.
Short	Gives a route that has the smallest total distance of all possible routes between the route points. Usually practical for pedestrians, cyclists or slow vehicles.
Economical	Combines the benefits of Fast and Short: **Go Drive** calculates as if it were calculating the Fast route, but it takes other roads to save petrol.
Easy	Results in a route with fewer turns. With this option, you can make **Go Drive** to take, for example, the motorway instead of series of smaller roads or streets.

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REGIONAL SETTINGS

These settings allow you to adjust the application for your local language, measurement units, time and date and their formats, as well as choose the voice guidance profile you prefer. Tap the following soft Keys: 

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Soft Key	Description
Program Language	This soft Key displays the current written language of **Go Drive**. By tapping the soft Key, you can select a new one from the list of available languages. The application will restart if you change this setting; you are asked to confirm this.
Voice Profile	This soft Key shows the current language of the voice guidance. By tapping the soft Key, you can select a new one from the list of available languages and speakers. Tap any of these to hear a sample voice prompt. Just tap OK when you have selected the new spoken language.
Units	You can set the distance units to be used by the program. **Go Drive** may not support all the listed units in some voice guidance languages. If you select a measurement unit not supported by the chosen voice guidance language, a warning message will appear.
Set Date & Time Format	You can set the date and time format. Various international formats are available.
Time and Time Zone Settings	You can access time and time zone settings. **Go Drive** helps you with correcting the device time to the ever accurate GPS time. **Go Drive** can also help you set the time zone based on your current GPS position.

Time and Time Zone Settings:

Soft Key	Description

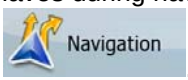
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Soft Key	Description
Auto Time Correction to GPS	Use this feature to synchronize the clock of your device to the very accurate time provided by the GPS receiver.
Use Auto Time Zone	Use this feature to synchronize the time zone of the clock of your device to the time zone based on your current GPS position. This is useful if you travel abroad.
Set Time Zone	Set time zone manually if you do not want to synchronize the time zone automatically. This allows you to use Auto Time Correction and apply a time zone offset to obtain the desired time.
Compare GPS and device times	The current time of the GPS receiver and the device clock are displayed. Please note that the GPS clock is only available with GPS reception. This allows you to check whether any correction is needed.

NAVIGATION SETTINGS

You can control how **Go Drive** behaves during navigation. Tap the following soft Keys: 

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Soft Key	Description
Keep Position on Road	This feature allows car drivers to always correct GPS position errors by matching the vehicle position to the road network. For pedestrian navigation, this feature is automatically disabled to let the software show your exact position. By turning off this feature you also turn off the GPS position error filtering. The position shown on the map will be subject to all position errors and position fluctuations.

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Soft Key	Description
Off-route Recalculation	This switch tells **Go Drive** whether to automatically recalculate the route when you deviate from it. If this feature is turned off, you need to initiate route recalculation manually otherwise navigation will be stopped until you return to the originally recommended route. Setting another point than the current GPS position as the start point of the active route will automatically disable this feature.
Restore Lock-to-Position	If you have moved or rotated the map during navigation, this feature moves the map back to your current GPS position and re-enables automatic map rotation after the given period of inactivity.
Automatic Overview	This feature switches the map view to Overview mode when the next route event is at a distance. Overview is a zoomed out 2D view to let you see the surrounding area. You have the following controls for Automatic Overview: • Turn Distance for Overview: The map view will be switched to Overview mode if the next route even is at least as far as this value. • Default Zoom Level: Overview mode will appear with this zoom level. You can scale the map in Overview mode but next time Overview appears again, this zoom level will be applied.

WARNING SETTINGS

You can enable some handy warnings, and disable the touch screen in a moving vehicle with Safety Mode. Tap the following soft Keys: 

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Soft Key	Description
Warn When Speeding	Maps may contain information about the speed limits of the road segments. **Go Drive** is able to warn you if you exceed the current limit. This information may not be available for your region (ask your local dealer), or may not be fully correct for all roads in the map. This setting lets you decide whether you wish to receive the warnings. You can set the relative speeding at which the application
	warns you (100% is the current speed limit): • In Built-up Areas: in cities and towns • Elsewhere: at all other locations There are two types of warnings. You can turn them on or off independently: • Audible Warning: A voice message is played using the selected voice guidance profile. • Visible Warning: A symbol with the speed limit appears in the corner of the map (for example: ).
Speed Camera Warning	This feature allows you to receive a warning when approaching a Road Safety Camera. You must ensure on your own liability that using this feature is legal in the country where you intend to use it. You have the following options: • Audible Warning: beeps can be played while you are approaching the camera, or just alert sounds if you exceed the speed limit while approaching one of these cameras. • Visible Warning: the type of the camera and the controlled speed limit appears on the Map screen while you are approaching one of these cameras.

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Soft Key	Description
Warn if Too Fast for a Pedestrian	Enable this warning to be alert if pedestrian mode is activated and you drive fast. You are asked if you want to change to car navigation mode. This way you can be sure you will not be routed via one-way roads in the wrong direction as a pedestrian could, for example.
Safety Mode	Safety Mode disables the touch screen above 10 km/h (6 mph) to keep your attention on the road. While driving, you will not be able to set a new destination or to change settings. The only screen control that remains enabled is the gesture that puts you back on the Map screen.

GPS SETTINGS

You can set up the connection to the GPS receiver. Tap the following soft Keys: 

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Soft Key	Description
GPS receiver ...	The first line of the screen informs you about the connection status of the GPS receiver. Connecting the GPS receiver is automatic, so normally you will not need this screen of settings at all.
GPS Enabled	Turn the connection to the GPS receiver on or off. Turning off the GPS receiver can be useful for indoors use or demonstration purposes.
Port	The communication port used between the GPS receiver and the application.
Baud Rate	The communication speed used between the GPS receiver and the application.
Autodetect	Tap this soft Key to find and connect the GPS receiver.

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MENU SETTINGS

You can modify the look and behavior of the Menu screens. Tap the following soft Keys: 

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Soft Key	Description
Animation	You can activate and deactivate the Menu animations. When animation is turned on, soft Keys on Menu and keyboard screens appear in an animated way.
Background	You can choose the image to be used as the menu background image.
Skin	You can choose from a list of available skins to change the look of **Go Drive**.

DEVICE SETTINGS

You can change some device settings to control the screen backlight when **Go Drive** is running. Tap the following soft Keys: 

, 

, 

.

Soft Key	Description

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Soft Key	Description
Power Management	You can set how the backlight will behave when the screen has not been touched for a while. You have the following options: • Backlight Always On: The screen is continuously lit. • Use Device Settings: The backlight settings of the device will be applied in **Go Drive**. • Smart: When running on battery, Smart Powersave will light up the screen only when you press a soft Key, tap the screen, or if there is something to show you. After a few seconds the light level decreases, and after another few seconds the backlight turns off. This helps achieve a longer battery life.
Backlight Intensity at Daytime	You can set the backlight level for daytime use.
Backlight Intensity at Night	You can set the backlight level for night use.
Autorun Enabled	You can instruct the PDA to automatically run **Go Drive** when the memory card is inserted.
Set Screen Orientation	You can change the orientation of the screen when running. The screen orientation can follow the current orientation of the PDA, or you can set a fixed orientation that is independent of the PDA settings.

TRACK LOG SETTINGS

You can set up an automatic Track Log saving, and fine-tune its settings. Tap the following soft Keys: 

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Soft Key	Description

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Soft Key	Description
Update Interval	This is how often track points will be saved. Position information is normally received once a second from the GPS. If you do not need such a detailed log, you can increase this number to save track log space.
Enable Auto-saving	When auto-saving is enabled, you do not need to turn track log saving on and off manually. **Go Drive** will automatically start recording the track log as soon as GPS position is available.
Track Log Database Size	This figure shows how much memory is used by the automatically saved track logs.
Track Logs Max. Size	You can set the maximum database size for the automatically saved track logs. When the limit is reached, the oldest automatically saved track logs will be deleted.
Create NMEA/SIRF Log	Independently of the normal track log, you can record the native GPS data received from the GPS device. These logs are saved as separate text files on the memory card, and they cannot be shown or replayed in **Go Drive**.

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5. MULTIMEDIA

The all-in-one versatile AV8OR provides several multimedia programs, such as listening to music, viewing photos, watching a movie and reading an Ebook. Tap the 

icon on the Main Menu (Refer to Figure 2-7) to go to the Multimedia menu page.



Figure 5-1: Multimedia Menu

MUSIC PLAYER

To enter the music player service, tap the 

icon on the Multimedia menu.

The Music program opens to the default Multimedia/music folder on the SD card as shown in Figure 5-2.

The music player supports the following audio formats:

- MP3
- WMA.

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Figure 5-2: Music Player - Searching for a Music File

Double tap on a music file to select and play it.



Figure 5-3: Music Player - Playing Music

Tap the 

icon to return to the Multimedia menu page.

PHOTOS

To enter the photo browser service, tap the 

icon on the Multimedia menu.

The Photo program opens to the default Multimedia/photo folder on the SD card as shown in Figure 5-4.

The photo browser supports the following image formats:

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- BMP
- JPG
- GIF
- PNG

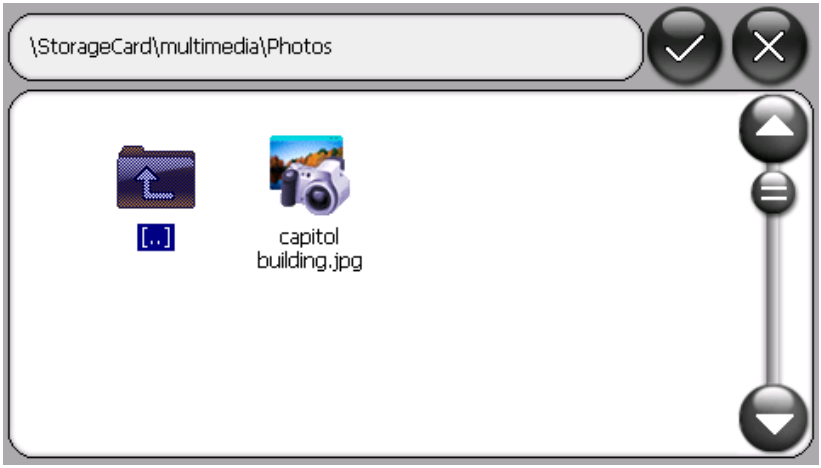


Figure 5-4: Photo Browser – Searching for a Photo

Double tap on a picture to display it.



Figure 5-5: Photo Browser - Viewing a Photo

Tap the 

icon to return to the Multimedia menu page.

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MOVIE PLAYER

To select a movie to view, tap the 

icon on the Multimedia menu page.

The Movie program opens to the default Multimedia/movies folder on the SD card as shown in.

The movie player supports the following video formats:

- AVI
- WMV
- MPG
- ASF

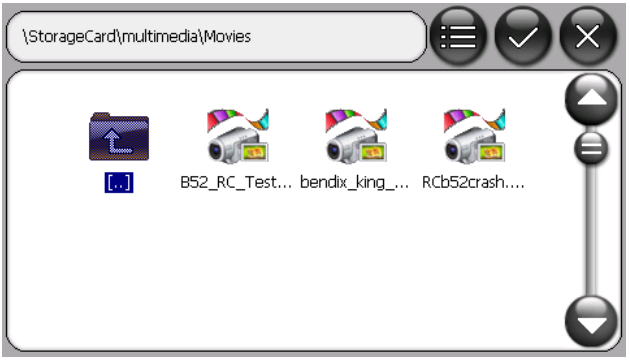


Figure 5-6: Movie Player - Searching for a Movie

Double tap on a movie file to play the movie.

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Figure 5-7: Movie Player - Playing a Movie

Tap the 

icon to return to the Multimedia menu page.

EBOOK READER

To read an Ebook, tap the 

icon on the Multimedia menu.

The Ebook program opens to the default Multimedia/ebooks folder on the SD card.

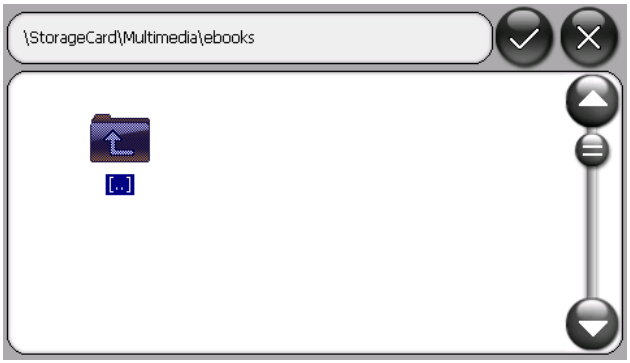


Figure 5-8: EBook Reader – Searching for a Book

Double tap on one of the Ebook files to open in the Ebook reader.

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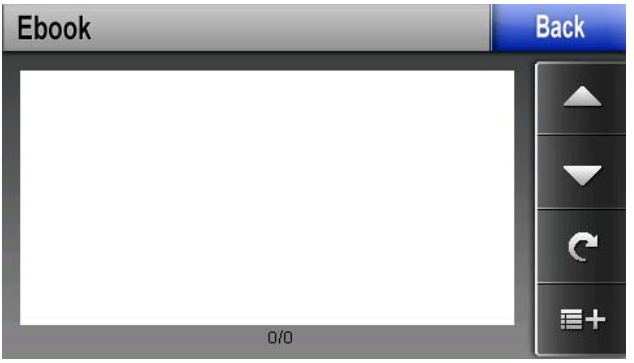


Figure 5-9: Ebook Reader

Tap the 

icon to return to the Multimedia menu page.

DOWNLOADING MULTIMEDIA FILES

Refer to the **Downloading files from PC** section in chapter 7 - Appendix for instructions on how to download multimedia files to the AV8OR.

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6. SYSTEM SETTINGS

The user can customize how the AV8OR operates and adjust system settings in the Settings page. Tap the 

soft key on the Main Menu page to enter the Settings page.

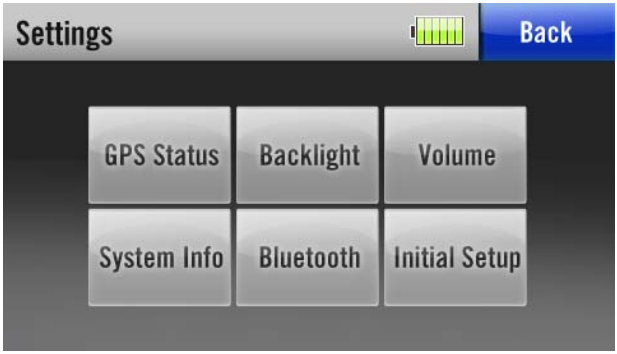


Figure 6-1: Settings Page

Tap the 

soft key to return to the Main Menu.

GPS STATUS

To enter the GPS status page, tap the "**GPS Status"** soft key on the Settings page. This option should only be used if the **Go Fly** or **Go Drive** Navigation Applications are not running. Ensure Navigation Applications are exited prior to trying to access this GPS Status Page. More information on the GPS Status page is located on the **Getting satellite signals** section in Chapter 2.

BACKLIGHT

To enter the Backlight page, tap the "**Backlight**" soft key on the Settings page.

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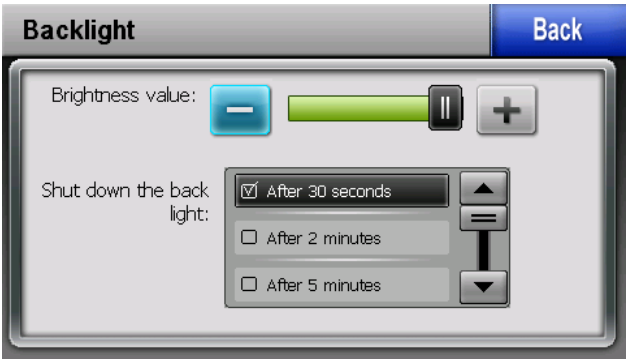


Figure 6-2: Backlight Page

Backlight control bar

To increase volume, tap the  icon. To decrease volume, tap the  icon. You can also drag the  soft key left or right or tap either side of the  bar.

Backlight shutdown setting

Select the wait time to turn off the backlight from the "Shut down the backlight" list.

Tap the  icon to return to the Settings page.

VOLUME

Tap the "**Volume**" soft key on the Settings page to enter the Volume page.

The settings on the Volume page control the volume of the touch-screen operation and the Menu soft key tapping

This page allows the user to set the maximum volume for the unit. The volume control knob on the left side of the unit can adjust the volume from Zero up to the level set on the volume page. To set the

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volume on the volume page, first set the volume control to maximum (up). Refer to Figure 6-3.

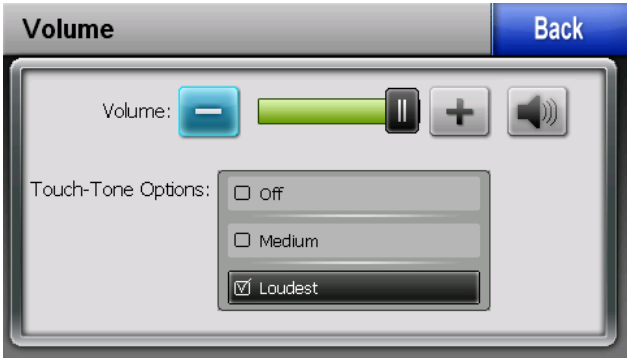


Figure 6-3: Volume Control

Enable/disable audio output

Tap the  icon to enable or disable the audio output.

Volume control bar

To increase volume, tap the  icon. To decrease volume, tap the  icon. You can also drag the  soft key left or right or tap either side of the  bar.

Tap the  icon to return to the Settings page.

SYSTEM INFO

To enter the System Info page, tap the "**System Info"** soft key on the Settings page.

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Figure 6-4: System Info Screen

BLUETOOTH

To enter the Bluetooth page, tap the "**Bluetooth"** soft key on the Settings page.



Figure 6-5: Bluetooth Main Page

To pair to a device with Bluetooth, do the following steps:

- Prepare your Bluetooth device to be discovered.
- Tap on the  Icon to open the Bluetooth manager.

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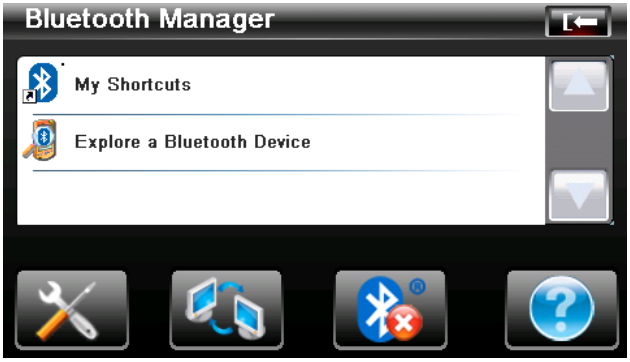


Figure 6-6: BlueTooth Manager

- Double tap on "**Explore a Bluetooth Device**".

This will initiate a search for other Bluetooth devices. While the search is in progress, the following page is displayed.

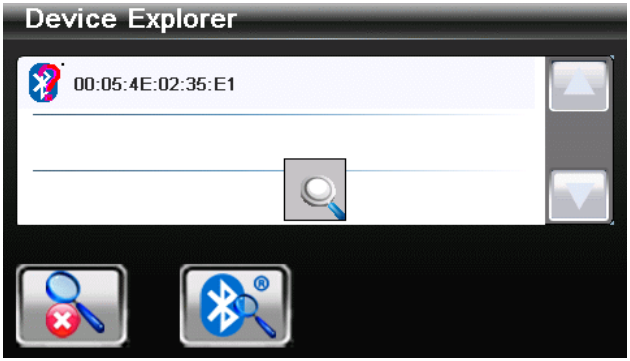


Figure 6-7: BlueTooth - Search in Process

- Double tap on the device to pair.

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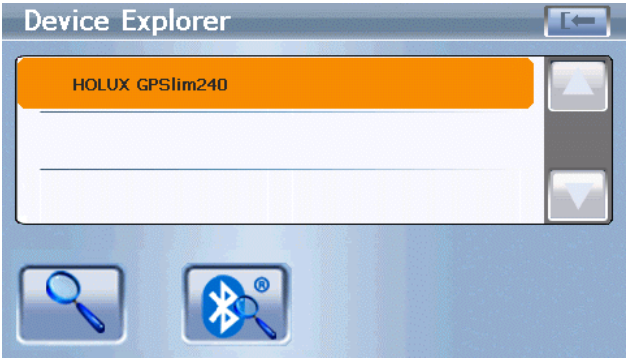


Figure 6-8: Bluetooth Device Explorer

- Click on the service to use (i.e. SPP Slave) and then click on the link icon  .

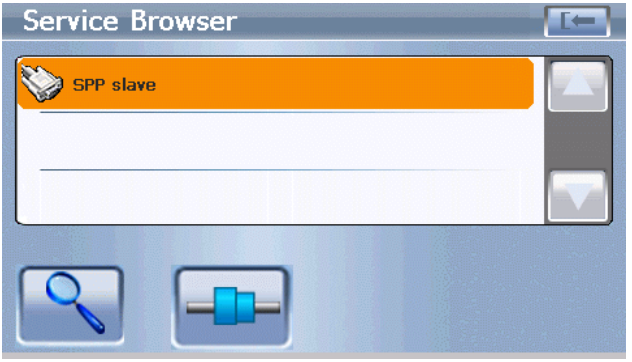


Figure 6-9: Bluetooth Service Browser

- The page will look like Figure 6-10: Bluetooth Devices Paired when connection is established.

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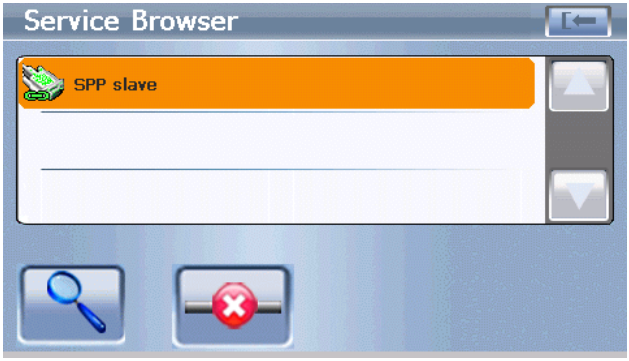


Figure 6-10: Bluetooth Devices Paired

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7. APPENDIX

ACRONYMS AND ABBREVIATIONS

Acronyms and abbreviations used in this guide are defined as follows:

TERMS DEFINITION
A
ALT altitude
ATC air traffic control
AUTO automatic
B
BRG bearing
C
CDI course deviation indicator
COM communication
CRC Customer Response Center
CST Coast
D
DIS distance
DTK desired track
E
ELEV elevation
ESA en route safe altitude
ETA estimated time of arrival
ETE estimated time en route
ETT-WPT estimated time to WPT
EXT external
F
FPLAN flightplan
ft feet
G
GND ground
GNDSPD groundspeed
GPS global positioning system
GPS-ALT GPS determined altitude
GS ground speed
H
HSI Horizontal situation indicator

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I
ICAO International Civil Aviation Organization
ID identification
IFR instrument flight rules
INT internal
K
KMH kilometers per hour
L
LAT latitude
LCD liquid crystal display
LON longitude
LONG longitude
LTNG lightning
M
M meters
MFD multifunction display
MGRS military grid reference system
MOD modification
MPH statute miles per hour
MSA minimum safe altitude
MSL Mean sea level ???
N
NAV navigation
NAVAID Navigation/al Aid
NCD non-computed data
NDB non-directional beacon
NM nautical miles
NVG night vision goggles
NVM non-volatile memory
O
OBS omni-directional bearing selector
P
PBRG pointer bearing
PC personal computer
PDIS pointer distance
PIN personal identification number
POS position
PTR pointer
R
RMA return material authorization
RNG range

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S
SBY standby
SPD speed
SSM Sign status matrix
STBY standby
STRK strike
SUA special use airspace
SV# Space vehicle number (GPS satellite number)
T
TA traffic alert
TAU protective area around aircraft
TCAS Traffic alert and collision avoidance system
TIS traffic information service
TOPO topographical data (i.e. coastlines, terrain, rivers, lakes and so on)
TRFC traffic
TRK actual track
TST test
TTS track to steer
U
USB universal serial bus
UTC universal coordinated time (same as Greenwich Mean Time)
UTM universal transverse mercator
V
VFR visual flight rules
VOR very high frequency omni-directional radio range
VRP visual reference point
W
WPT Waypoint
X
XTK cross track error

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DOWNLOADING FILES FROM PC

Use the included PC/USB cable (part number 005-03702-0004) to attach from the AV8OR to a USB port on a P/C.
Refer to the http://www.bendixing.com website for instructions on how to download files from the PC to the SD card in the AV8OR.

The SD card for the AV8OR has the following directory structure:

Directory	Description
\GoDrive	Root level for Car Navigation Software
\GoFly	Root level for Aviation Software
\GoFly\data	Storage location for Aviation data
\GoFly\data\Vector	Storage location for all databases
\GoFly\data\System	Storage location for NVM data
\GoFly\data\user	Storage location for user data
\GoFly\data\user\Notepads	Storage location for user notepads/checklists
\GoFly\data\user\Flight Logs	Storage location for user flight logs
\Multimedia	Root level for all Multimedia
\Multimedia\ebooks	Storage location for E-books
\Multimedia\movies	Storage location for movies
\Multimedia\music	Storage location for music
\Multimedia\photos	Storage location for photos

CAUTION
Make sure that any multimedia files that are downloaded only go into the correct multimedia subdirectory.
WARNING
Deleting or changing files in the GoDrive or GoFly directories on the SD card may make the aviation or automotive navigation programs unusable.

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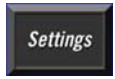
CONNECTION TO AN EXTERNAL GPS SOURCE

The AV8OR will accept external GPS source data via the RS 232 interface and can be used as a non-certified display of GPS data. Below is a list of a few RS 232 GPS units that have been evaluated Reminder: The AV8OR only provides for one RS 232 interface.

Bendix/King KLN-94

Garmin© GNS 430/430W/530/530W

To configure the AV8OR to receive external position and flight plan data, perform the following steps:

From the Aviation Main Menu, tap the 

soft key to open the System Setup Menu.
Highlight the **Device Setup** option and tap the **SELECT** soft key to show the Device and Port Setup page.
The AV8OR must be set up so that the Position Port is configured as "Serial" and the Flight Plan Port is configured as "External". The type must be set as AR-NAV.

On the Device and Port Setup page, the configuration steps are:

- If the Weather Source is set to Serial, it must be changed to either **BlueTooth** or **None**.
- Set the Position Port to "**Serial**".
- Set the Flight Plan Port to "**External"**.
- Set the Position Type to "**AR-NAV**". This will change the Flight Plan Type to "ENH AR-NAV".

When finished the Device and Port Setup page should look like Figure 7-1.

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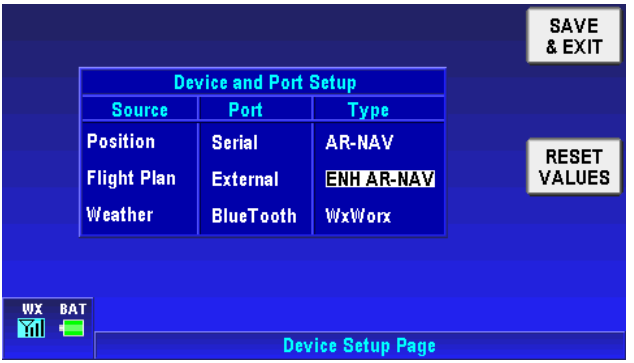


Figure 7-1: External GPS Setup Screen

The interconnect between the Bendix/King KLN 94 and the AV8OR is as follows:

KLN 94 Signal Name	KLN 94 Pin Out	AV8OR Signal Name	AV8OR Pin Out
GENERAL RS-232 OUT	P941-2	RS 232 RX	DB9-2
GENERAL RS-232 IN	P941-1	RS 232 TX	DB9-3
AIRCRAFT GROUND	P941-14	GROUND	DB9-5

The wiring interconnect between the GNS 430/430W/530/530W and the AV8OR is as follows:

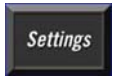
GNS430/530 Signal Name	GNS430/530 Pin Out	AV8OR Signal Name	AV8OR Pin Out
GPS RS-232 OUT 1	P5001-56	RS 232 RX	DB9-2
GPS RS-232 IN 1	P5001-57	RS 232 TX	DB9-3-
AIRCRAFT GROUND	P5001-77,78	GROUND	DB9-5

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CONNECTION TO AN EXTERNAL WEATHER SOURCE

Bendix/King KDR-610 Setup

To configure the AV8OR to receive weather data from the KDR-610, perform the following steps:

From the Aviation Main Menu, tap the 

soft key to open the System Setup Menu.
Highlight the **Device Setup** option and tap the **SELECT** soft key to show the **Device and Port Setup** page.
On the Device and Port Setup page, the configuration steps are:

- If the **Position Source** is set to **Serial**, it must be changed to **Internal** or **Bluetooth** since there is only one RS232 port available**.**
- Set the Weather **Port** to **Serial.**
- Set the Weather **Type** to "**KDR-610**". When finished the Device and Port Setup page should look like Figure 7-2.

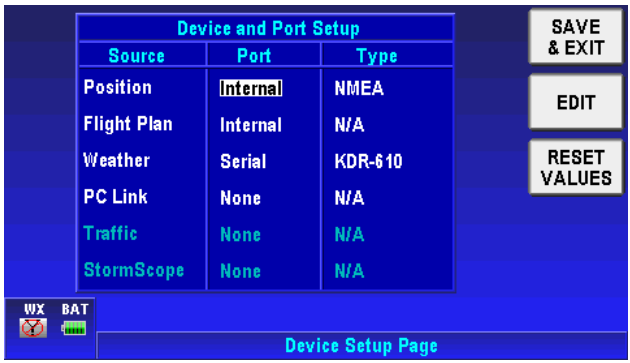


Figure 7-2: Weather Setup - KDR-610

The output of the KDR 610 is RS 422. You must use an RS 422 to RS 232 converter to change the KDR 610 differential outputs to the single ended levels that the AV8OR requires. This converter is installed between the KDR 610 and the AV8OR.

An RS 232 to RS 422 Converter can be purchased from Telebyte, Model 253 (www.telebyteusa.com).

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The pinouts for the Bendix/King KDR 610 and the AV8OR are as follows:

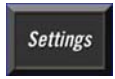
KDR 610 Signal Name	KDR 610 Pin Out	AV8OR Signal Name	AV8OR Pin Out
422TXH	P6101-15	RS 232 RX	DB9-2
422TXL	P6101-33		
GROUND	P6101-37	GROUND	DB9-5

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WxWorx XM Weather Receiver Serial Setup

To configure the AV8OR to receive weather data from the WxWorx XM Weather Receiver, perform the following steps:

Attach the cable from the WxWorx XM Weather Receiver (supplied with the WX XM Weather Receiver) to the USB port on the AV8OR.

From the Aviation Main Menu, tap the 

soft key to open the System Setup Menu.
Highlight the **Device Setup** option and tap the **SELECT** soft key to show the **Device and Port Setup** page.
On the Device and Port Setup page, the configuration steps are:

- If the **Position Source** is set to **Serial**, it must be changed to **Internal** or **Bluetooth** since there is only one RS232 port available**.**
- Set the Weather **Port** to **Serial.**
- Set the Weather **Type** to "**WxWorx**". When finished the Device and Port Setup page should look like Figure 7-3.

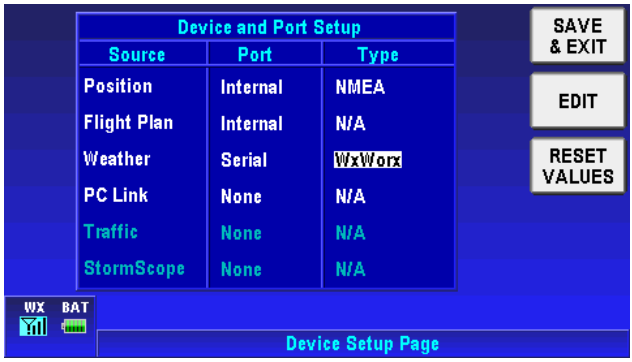


Figure 7-3: WxWorx XM Weather Setup

Refer to the WxWorx user guide for how to activate your subscription to XM weather.

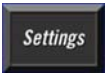
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WxWorx XM Weather Receiver Bluetooth Setup

To configure the AV8OR to receive weather data from the Bluetooth version of the WxWorx XM Weather Receiver, perform the following steps:

Setup the WxWorx receiver in the **Device and Port Setup** page as follows:

1. On the Main Menu page, tap the 

soft key to start the Aviation mode navigation program.
2. From the Map page, tap on the **MAIN MENU** soft key to go to the Aviation Main Menu.
3. Tap the 

soft key to open the System Setup Menu.
4. Highlight the **Device Setup** option and tap the **SELECT** soft key to show the **Device and Port Setup** page.
5. Set the Weather **Port** to **BlueTooth.**
6. Set the Weather **Type** to "**WxWorx**". When finished the Device and Port Setup page should look like in Figure 7-4.

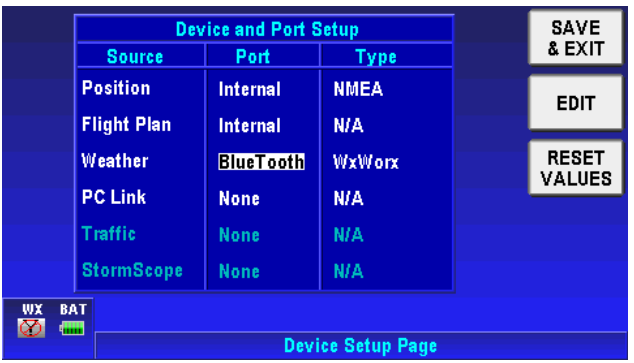


Figure 7-4: WxWorx Bluetooth Receiver Setup

Establish a paired connection between the WxWorx XM receiver and the AV8OR.as follows:

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1. From the MAIN MENU, touch the SETTINGS soft key, and then touch the Blue Tooth soft key to display Figure 7-5.



Figure 7-5: BlueTooth Main Page

2. Tap on the  Icon to open the Bluetooth manager page as shown in Figure 7-6.

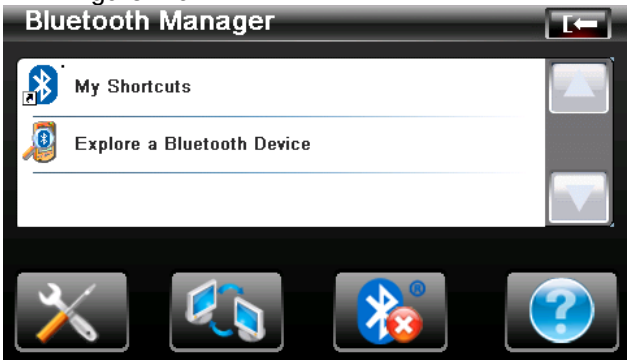


Figure 7-6: BlueTooth Manager

3. Double tap on the "**Explore a Bluetooth Device**" option. This will initiate a search for other Bluetooth devices. While the search is in progress, the following page is displayed.

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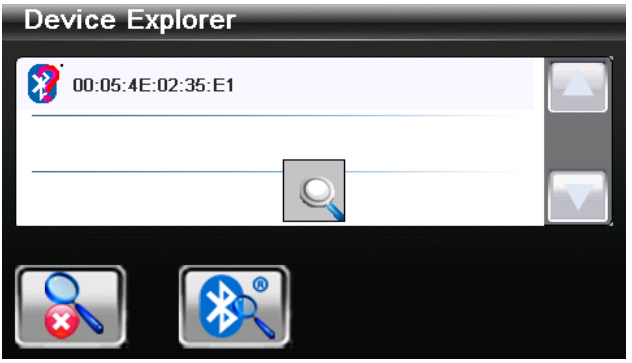


Figure 7-7: BlueTooth - Search in Process

4. When the Wx Radio receiver and or other devices are found, Figure 7-8 is displayed:

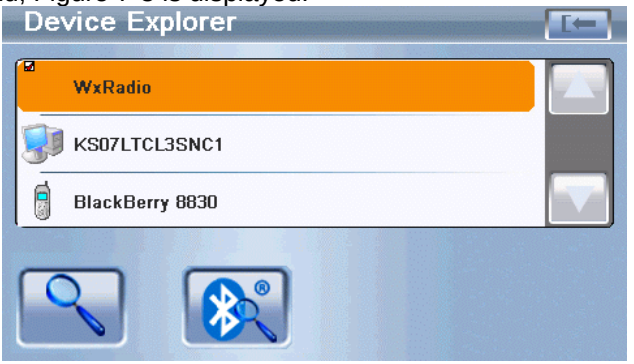


Figure 7-8: BlueTooth WxRadio Found

5. High light the **WxRadio** file and then touch the  soft key to access the device and display Figure 7-9.

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Figure 7-9: BlueTooth Passkey Required

6. Enter the Passkey supplied with your WxWorx receiver and then touch the "**OK**" soft key to display Figure 7-10.

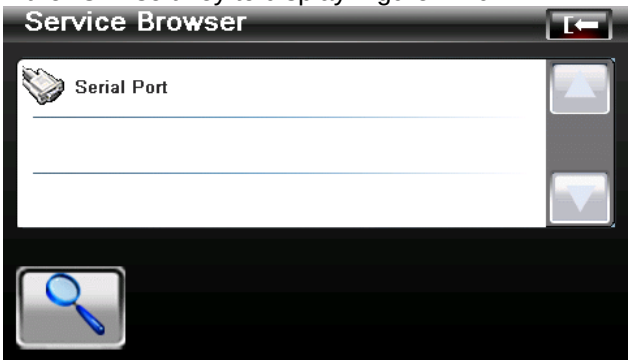


Figure 7-10: BlueTooth Service Browser Screen

7. Touch the "Bluetooth Serial Port" item to select it to display Figure 7-11.

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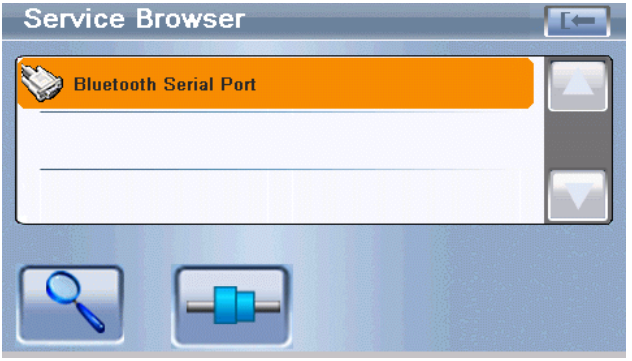


Figure 7-11: Bluetooth - Serial Port Found

8. Touch the "CONNECT" soft key to start the connection process, a message displays "Connecting 'Bluetooth Serial Port' service". After the device is successfully connected, Figure 7-12 is displayed.

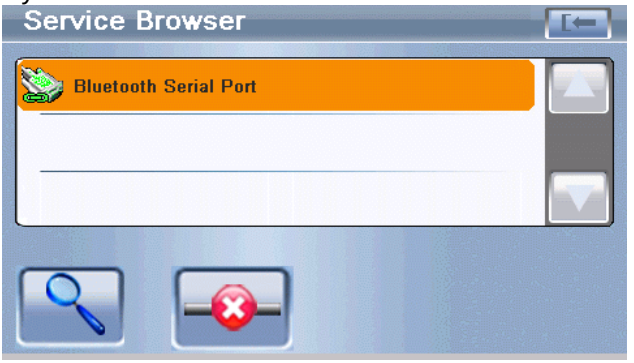


Figure 7-12: BlueTooth Serial Port Connected.

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EXTERNAL FLIGHT PLANS

Jeppesen FliteStar© PC Application

The AV8OR can use flight plans created by the Jeppesen FliteStar© PC application. Flight plans can be created and modified using the Jeppesen tool. The flight plans need to be saved using the "Export as Text" option, with the filename "Route.txt". This file must then be transferred to the SD card and stored in the GoFly\data\user directory.

When creating routes using the Jeppesen FliteStar© tool, only the WPTs under the "route" directory should be exported. If there are identifiers, airports, WPTs, etc in the "Other Charts" directory they will be appended to the end of the flight plan when it is exported. When this flight plan is imported into the Aviator, these extra items will be treated as extra WPTs resulting in a flight plan different than the one created using FliteStar©.

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